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ARMY FLIER

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CHILDREN BACK IN SCHOOL

PHOTOS BY NATHAN PFAU

Teachers help students find their seats on the first day of school at Fort Rucker Elementary School Aug. 4.

Students recite the Pledge of Allegiance on the first day of school at FRES

Principals predict 'outstanding' year

By Nathan Pfau
Army Flier Staff Writer

Fort Rucker's primary and elementary schools welcomed students back with open arms Aug. 4 for the start of a new school year.

"The first day of school went so well," said Dr. Vicki Gilmer, Fort Rucker Elementary School principal. "We were so glad to have so many of our previous families back and had many new families join us at FRES."

Gilmer said students and teachers spent their first day back getting to know each other and learning about their routines as they settled in to their new classrooms.

At the primary school, things were going just as well, according to Dr. Deborah Deas, Fort Rucker Primary School principal, since students and teachers had the chance to get acquainted during the school's Sneak-a-Peak the day before.

"We gave students and parents the opportunity to see how the school was organized inside and see where their classes were located," said the primary school principal, adding that it was a good opportunity for students to familiarize themselves with their new teachers, and a good chance for parents to get any information they needed.

It wasn't just school staff members who were happy to see the children back in school, though. Parents were also thrilled to see their children take their place in the next grade.

"This time of year is always so exciting for my children," said Jody Sawyer, military spouse and mother of two. "They always get so excited to get their new school supplies and they're always so eager to get them out to use them. It makes me happy to see when they're actually happy to go back to school."

Although Sawyer said it was quite a feat to get them back into the routine of getting back into the swing of their school schedule, she was happy to see them enthusiastic to learn.

Students get out their colored pencils and work books.

"It's great having them back in school because throughout the summer it's so hard to keep children occupied, especially while trying not to get them too much out of the routine," she said. "Of course, summertime is all about playing and be-

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'EVERY PERSON IS A SENSOR'

Vigilance, reporting key to preventing attacks

By Nathan Pfau
Army Flier Staff Writer

Incidents of mass shootings are on the rise in the United States in recent years, and Fort Rucker and the Army want to make sure the Army family is prepared in the event of an attack.

August is Antiterrorism Awareness Month, and the Directorate of Plans, Training, Mobilization and Security is committed to educating the community on what to do in the event people encounter an active shooter and, most importantly, what people can do to prevent such a tragedy from occurring, according to Mike Whittaker, DPTMS antiterrorism officer.

"The (overarching) theme of (this observance) comes back to if you see something, say something," he said. "If something is out of the ordinary, then you need to report it."

That's where iWATCH Army comes in, which is an antiterrorism program that's focuses on encouraging Army-wide community awareness and outreach efforts to address important topics related to protecting communities – not just from terrorist acts, but all crime, according to Cory Greenawalt, Fort Rucker Training and Doctrine antiterrorism analyst.

"It's a community program to help your neighborhood stay safe from terrorist activities and crime," he said, adding that the program is a platform for people and their fellow Army community members to report behaviors and activities that seem out of the ordinary or make them uncomfortable.

People can access the iWATCH Army website at www.myarmyonesource.com/familyprogramsandservices/iwatchprogram/default.aspx.

Throughout the month, static displays will be set up around post at Bldg. 5700, the post exchange, the commissary and outdoor recreation to provide people education on what they can do to keep an eye out for criminal and terrorist activity, as well as how they might be able to protect themselves in the event of an incident.

FILE PHOTO

A simulated casualty is MedEvac'd during a previous force protection exercise on Fort Rucker.

Greenawalt said that this month's observance is a good opportunity for units and directorates on post to go through their active shooter standard operating procedures.

"We want them to go through their SOPs and capture any shortfalls, so that they can be documented and sent forward to us to help out in any way," he said. "This month needs to be a catalyst for that type of training because of all of the shootings going on all over the nation."

In 2016 there have been over 275 shootings with over 1,000 people injured and 300 who have been killed, according to Greenawalt, so this is something people need to be prepared for.

In the event of an active shooter, Greenawalt suggests that the first thing people should do is to try and get out of the area as quickly as possible.

"If they hear gunshots, they need to get out as fast as they can," he said. "If they can't get out of the area or find an exit, then they need to know how to barricade themselves by getting into a building or room where the doors can be locked and barricaded in."

Also, in the event that they are confronted by the shooter, as a last resort and only as a last resort, Greenawalt said people may have to confront the shooter because in a life and death situation, it's either going to be them or the shooter.

In order to avoid having to be put in that situation, however, Whittaker suggests that people always be aware of their surroundings.

"You have to know your locations and be aware of your surroundings," he said. "Know where your exits are and look for the security around the area."

Another way Greenawalt suggests that families on post can educate themselves is by taking the Antiterrorism Level-1 training found on My Army One Source.

"All Soldiers take this training, and it's also available to families – spouses and children over 15 years of age," he said. "They can visit Army One Source and participate in the training, and there are videos and

SEE VIGILANCE, PAGE A5

STOMP

Program helps educate parents

By Nathan Pfau
Army Flier Staff Writer

Following the spirit of the saying that it takes a village to raise a child, the Army and Fort Rucker are making sure that parents of children with special needs don't have to go it alone.

The Fort Rucker Exceptional Family Member Program will host a two-day workshop of Specialized Training of Military Parents Aug. 25-26 at The Commons from 9 a.m. to 3:30 p.m., as a means to help military families better understand how to access their children's special education needs, according to Marion Cornish, EFMP manager.

"The purpose of this training is to help military families to understand their rights, and how to responsibly access special education services for their children," said Cornish. "It will help them understand that when you get into the education arena and you're talking about children with special needs, depending on their age range, there are programs in place that can help."

The free program is brought to Fort Rucker by U.S. Army Installation Management Command, which provides funding to bring the program to installations across the U.S. The program originated in Tacoma, Washington, from the organization Partnerships for Action, Voices for Empowerment, and is now widely hailed as the

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Perspective

Is that text worth a human life?

By Sgt. Kyle Fisch
U.S. Army Special Operations Command Public Affairs

FORT BRAGG, N.C. — Distracted driving is generally defined as any activity that diverts a person's attention from the primary task of driving. All forms of distracted driving endanger the driver, passenger, and any bystander's safety, but because text messaging requires visual, manual and cognitive attention from the driver, it is arguably the most alarming distraction.

The Department of Transportation estimates suggest that distracted driving contributes to 16 percent of all fatal crashes, leading to approximately 5,000 deaths every year.

Of all drivers 15 to 19 years old, 10 percent of those involved in fatal crashes were reported as distracted at the time of the crashes. This age group has the largest proportion of drivers who were distracted at the time of the crashes, according to the National Highway Traffic Safety Administration.

"Studies have shown that the reaction time of a distracted driver to react to an emergency situation, compared to a driver who is legally intoxicated, is actually 35-percent slower than the intoxicated driver," said Powell Parks, U.S. Army Special Operations Command safety director. "Both habits are dangerous; however, while statistics show that drunk driving is on the decline, it is estimated that 25 percent of the vehicles on the road has a driver who is driving distracted."

These types of incidents are on the rise and are not isolated to any specific demographic. Military service members and Department of Defense civilians have had their own experiences with distracted driving, and while some may be as minor as fender-benders, others have experienced more drastic long-lasting damages to this terrible habit.

One USASOC employee knows firsthand the consequences of distracted driving. In 2012, Mark Tate lost his wife, Sharon, when she was killed by a distracted tractor trailer truck driver in southwest Virginia. Court documents proved the driver was traveling over the posted speed limit, but, because he was distracted, he did not see the stopped traffic due to construction and began braking when it was already too late.

ARMY GRAPHIC

"He overcorrected at the last minute and jackknifed, pushing my wife's SUV (sport utility vehicle) under the rear end of another flat-bed tractor trailer," Tate said. "The flat-bed took the top off of the SUV and caused 116 blunt-force traumas to my wife, who was killed instantly."

"The accident occurred before Virginia enacted laws against distracted drivers and set separate punishments for them. The state did not have a process established to investigate cell phone usage prior to an incident," Tate said. "He was, instead, charged with felony reckless driving and received a nine-month prison sentence and loss of his license for a year."

According to the Centers for Disease Control and Prevention, National Center for Injury Prevention and Control, "at 55 mph, the average text takes your eyes off the road long enough to cover a football field."

Despite often having the same tragic consequences as driving under the influence of alcohol or drugs, many states do not treat it equally. Instead they have less severe penalties for the infraction, such as labeling it a traffic violation rather than involuntary manslaughter, which can be the difference between probation and fines, and months or years of jail-time.

Tate also explains how this tragedy has impacted his life and the changes he would like to see take place so that tragedies like this can be avoided.

"My wife's death has affected the way I look at people who drive while on their phones. I want to scream to them that what they are doing is wrong," Tate said. "I would like to see stricter laws on the use of phones while driving and police enforcing it more actively. Is that phone call or text worth somebody's life?"

Tate's experience is unfortunately not the only one with such drastic outcomes. In December 2013, a Wisconsin mother driving with her 11-year-old daughter and two 5-year-old nieces in her car had her life changed forever at the hands of a distracted driver. The distracted driver was on her cell phone when she crossed over the centerline and hit the vehicle head-on, killing the three young children.

These are just a couple examples, out of thousands of incidents occurring in the U.S. every year, where somebody's life is permanently and drastically altered by the carelessness of those who couldn't wait.

"Don't do it! If you have to make a cell phone call, send a text, discipline your kids, or whatever, pull your car off the road. Drive defensibly and be aware of other driver's actions behind the wheel," Parks exclaimed. "If you observe another driver that is obviously driving distracted, give them some extra space and be prepared for any erratic maneuvers, such as late braking or sudden lane changes. Don't be a passive passenger in a car with a distracted driver – speak up and say something."

For the Army, Army Regulation 385-1, The Army Safety Program, prohibits all vehicle operators on Department of Defense installations and operators of government-owned vehicles, on or off the installation, from using cell phones or other hand-held electronic devices unless the vehicle is safely parked, or they are using a hands-free device, Parks said.

"Personnel should discipline themselves to become focused drivers and not trying to accomplish other tasks besides the primary task of driving safely," Parks said. "If you are a driver that routinely talks on a cell phone while driving, make the effort to break the habit – you and everyone around you will be safer for it. Set the standard that others should follow, especially for your teenagers that that are preparing to get their driver's licenses."

Rotor Wash

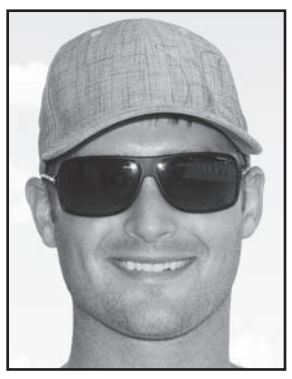
"August is Antiterrorism Awareness Month. What are some ways Soldiers and families can remain vigilant?"

W01 Kyle Sam, 1st Bn., 145th Avn. Regt.

"Make sure to keep your eye out for anything that doesn't look right. If you see something, report it to the proper authorities."

Joseph Argo, veteran

"People should make sure to know what to do in the event that something happens. Read up on who to contact and what to know."



CW2 Eric Smith, TDY from Springfield, Mass.

"People should just always be aware of their surroundings."

2nd Lt. Tanya Oliver, D Co., 1st Bn., 145th Avn. Regt.

"Just always keep your eyes open. If something looks funny, don't just let it go. It's better to be safe than sorry."

2nd Lt. Jordan Allen, D Co., 1st Bn., 145th Avn. Regt.

"Try to avoid going places alone and make sure you always have an emergency contact."

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MAD SCIENCE

Mad Scientist conferees consider security environment of 2050

By Gary Sheftick
Army News Service

WASHINGTON — The U.S. Army Training and Doctrine Command commanding general challenged military, industry and academic leaders attending the Mad Scientist Conference Monday and Tuesday to think differently about the future.

"There's a preoccupation with trying to predict the future," said Gen. David G. Perkins. He challenged the group assembled at Georgetown University to describe the future — not predict it.

"That sounds like a nuance, but actually it's a significant nuance," Perkins said, explaining that describing the future requires having a well-rounded understanding of the environment. It means understanding the changing variables and not "hardwiring" a solution.

During the conference, these "mad scientists" are tasked with describe the strategic security environment in 2050. The Mad Scientist initiative is co-sponsored by the Chief of Staff of the Army's Strategic Studies Group, TRADOC, and the Georgetown University Center for Security Studies.

This is the second year a group has met in Georgetown for this ongoing intelligence initiative. Speakers include Chief of Staff of the Army Gen. Mark Milley, along with the editor of "Popular Science" magazine, the president of FutureScout LLC, the director of the Australian War Research Center and representatives from universities across the country.

PHOTO BY SGT. WILLIAM A. TANNER

A Soldier assigned to 4th Squadron, 2d Cavalry Regiment fires a Javelin anti-tank missile at the Grafenwoehr Training Area, Germany, Feb. 24.

Perkins told the group that he's not looking for innovative ideas. What he wants is innovation, which he defined as turning critical thinking "into valued outcome."

The Army has no lack of innovative thinking, he said, but because of bureaucracy and an all-or-nothing mentality, it's often difficult to follow through on innovative ideas. In business, many companies with innovative ideas have gone bankrupt, he said, because they couldn't bring those ideas to market.

One of the things that characterize innovative companies is a high rate of collaboration, he said. That's what the conference is all about.

The military often has an "obsessive-compulsive nature to get everything digital," he said. "What happens is we miss opportunities to shape the future. We get consumed with responding to the future."

A different way of approaching the future would be to ask the question, "What puts the U.S. Army at an advantage?"

"We don't do as good a job thinking two moves ahead, especially if we're successful," Perkins said about the military.

He said success tends to hardwire a tactic or technique and make it permanent. But the enemy adapts.

For instance, he said the U.S. has the best targeting capabilities in the world. So enemies decide not to be a target. They don't wear uniforms; they don't assemble in large formations; they blend in with the population; and they go subterranean.

Any technical innovation is only temporary, Perkins reminded his audience. The enemy will soon adapt.

"Technology has become the most transferrable of our capabilities," he said. Years ago, stealing a trade secret required taking blueprints and reams of documents. "Now all you need is a thumb drive."

As an armor officer, Perkins said he has long appreciated the protection afforded by the M1 tank and Bradley Fighting Vehicle. "I'm used to getting my protection from tons and tons of armor." Advanced protection for combat vehicles is one of the capabilities that TRADOC leaders believe will be critical in 2050.

"The problem we're seeing now is, with the proliferation of ATGMs (anti-tank guided missiles), chemical-energy munitions, shaped charges … is that the cost curve as well as the physics (are) working against us," Perkins said. "It's much easier to develop new ways to penetrate the armor."

Changing penetrating charges is relatively inexpensive compared to producing new armored vehicles, he said. The adversary can update more quickly and at lesser expense. The old paradigm of "more and more armor" may be outdated.

"Better think of a different way to protect," he said.

What's needed are capabilities, rather than things, he said. He challenged the group to avoid some of the "traps" that discussions of the future often fall into.

Tech promises more mobile command posts

By David Vergun
Army News Service

ABERDEEN PROVING GROUND, Md. — Mission command – the exercise of authority by a commander to empower leaders to execute missions – is one of the most fundamental aspects of warfighting.

Yet, the communications infrastructure that enables mission command is time-consuming to set up and operate, and it is decades old. Command post tents must be erected, all the communications gear must be wired up, and heavy generators and communications gear must be hauled in vehicles.

That's not very expeditionary, said Lisa Heidelberg, the chief of Mission Command Capabilities Division, Communications-Electronics Research, Development and Engineering Center, during a media day July 28. Her team's efforts are focused on improving the physical configuration of command posts, as well as developing new software applications.

"Right now, our command posts are large and commanders are restrained to their (command posts) to do mission planning and operations," she said. "To get to an expeditionary force, you need to enable the commander to be mobile, to be able to command from outside the (command post)."

What that means is the commander must be able to execute mission command on both mounted and dismounted patrols, as well as in the traditional command post, she said.

ARMY PHOTO

The ultralight, expeditionary command post tent can be erected in just a few seconds, shown here at Aberdeen Proving Ground, Md.

Although the primary goal is to reach the point where a commander can execute mission command on the fly, the traditional command post will not go away anytime soon, Heidelberg said. So researchers have focused on shortening the setup time of the tent that houses the command post's Soldiers and equipment.

Tyler Barton, project lead for the division's Expeditionary Command Post Capabilities, said that his team has developed an ultralight, expeditionary command post tent that can be erected in just a few seconds. The tent is so light that it doesn't need its own trailer and can fit inside a Humvee.

The Joint Light Tactical Vehicle is the Army's longer-term solution to field light vehicles, he noted. By integrating the ultralight tent into a Humvee today, the Army will be able to retrofit its current fleet to provide new expeditionary command post options.

Soldiers from 1st Squadron, 1st Cavalry Regiment, successfully tested the tent last October at a Network Integration Evaluation exercise at Fort Bliss, Texas, he said. Results of the testing will go to Army Training and Doctrine Command to inform the requirements.

Another time-consuming factor of command post setup involves wiring everyone's computers together to enable mission command.

Barton's team has successfully eliminated all of the video cables that are tied together inside a 200-pound transit box, known as a Jupiter Switch. They have also eliminated the heavy box.

Instead, an app known as the Display Viewer Application now connects everyone's computer over a wireless local area network, he said. That has dramatically reduced setup time.

Another goal is to eliminate the need for commanders to command from laptops inside a command post.

Cyndi Carpenter, chief of the division's Data Engineering Branch, said her team is working to develop a tactical computing environment that will allow Soldiers to communicate on patrol or in vehicles without the use of a keyboard or mouse.

"We want to do that through gesture, voice interaction and eye tracking," she said.

Her team has developed a voice interaction app to achieve this kind of functionality. It's known as the Single, Multimodal, Android Service for Human-Computer Interaction.

Zachary Deering, a computer engineer for the branch's Tactical Computing Environment, helped develop the app, which he said incorporates open-source voice recognition. It is designed to be used by the Army and across the Department of Defense in existing communications gear.

It's nearly impossible to type into a keyboard while driving off-road or on dismounted patrol, he said.

In a demonstration, Nick Grayson, a junior engineer for the branch's Tactical Computing Environment, showed how SMASH translates voice commands into actions on a topographic map monitor display of a battlefield.

Using voice commands like, "Symbol search reconnaissance force," and "Draw phase line," Grayson demonstrated how one could use the app to provide the locations of enemy forces, friendly forces, and equipment. Currently, SMASH has integrated all of the battlefield symbology found in the joint Military Standards 2525D specifications.

In doing away with the need to issue commands with the mouse and keyboard, the app speeds up processing time from minutes to seconds, he said.

User trials of SMASH were conducted at Fort Riley, Kansas, where it received positive feedback from users. SMASH apparently was a smash with the Army, Carpenter said, and the project is ready to transition to a program manager.

Thus far, she noted, SMASH has only been tested in the lab and with users. The next step is testing it in a field environment.

News Briefs

Pay office closure

The Defense Military Pay Office will close Aug. 26 at 12:30 p.m. The office will reopen Aug. 29 at 7:30 a.m. All DMPO customers are asked to visit the DMPO with their pay inquiries or clearance papers prior to the closure. Soldiers with a military pay emergency during this time should call 317-319-7604 for assistance.

Lyster activity classes

Lyster Army Health Clinic offers free yoga classes Mondays, Wednesdays and Thursdays from 11:45 a.m. to 12:45 p.m. in the Lyster Activity Center, Rm. J-100 in the clinic. Lyster officials encourage participants to bring their own mats.

AAFES expands layaway

The Army and Air Force Exchange Service is extending its layaway program to include computers and tablets. Now through Aug. 31, just in time for back-to-school season, Fort Rucker Exchange shoppers can use layaway to hold computers, notebooks, tablets and iPads – items that are not typically eligible for the program, according to Dave Smith, Fort Rucker Exchange Main Store manager.

A $3 service fee and a deposit of 15 percent are required to hold items on layaway. Items must be picked up by Aug. 31. Shoppers can visit customer service at the Fort Rucker Exchange for complete details.

Thrift shop

The Fort Rucker Thrift Shop is open Wednesdays-Fridays from 10 a.m. to 2 p.m. The thrift shop needs people's unwanted items. People can drop off donations at any time in the shed behind the shop (former Armed Forces Bank building) located in front of the theater next door to the bowling alley. Donations are tax deductible.

For more information, call 255-9595.

School physical appointments

To ensure the highest continuity of care possible while providing timely access for patients requiring a school physical, Lyster Army Health Clinic will offer school physical appointments during the dates and times below. These slots will fill quickly, so people should book as soon as possible. The appointments serve to provide additional times and dates for dual-working parents and those who cannot schedule an appointment during normal business hours.

Parents should make sure to bring any required documentation to the appointment, with the patient portion filled out completely. The appointment will be for the school physical only. Any other issues will need to be addressed with the primary care clinician.

Appointments are available: Aug. 24, 1-3 p.m.; Aug. 31, 4-6 p.m.; Sept. 7, 1-3 p.m.; Sept. 14, 4-6 p.m.; Sept. 21, 1-3 p.m.; and Sept. 28, 4-6 p.m.

TRICARE Nurse Advice Line

Lyster Army Health Clinic uses the TRICARE Nurse Advice Line for all after-hours urgent care questions. Call 1-800-TRICARE (874-2273) to speak with a nurse 24 hours a day, 7 days a week.

Resiliency Resources

The Lyster and Fort Rucker Resiliency Resources mobile device app is available for free in Android and iPhone mobile app stores. The app can help people find information for Fort Rucker, including addresses, phone numbers and event information, and also information such as where running trails are located, if there is a 5k race coming up, when Bible studies occur and more.

Military pay briefing

The Defense Military Pay Office briefing for Soldiers scheduled to separate due to expired term of service or involuntary separation (non-retirement) is offered as a weekly group briefing. The ETS briefing is held Tuesdays at 1 p.m. in Bldg. 5700, Rm. 371B. Soldiers should bring the following documents to the briefing: two copies of separation orders and amendments, DA 31 - Request and Authority for Leave (if approved) and the original or notarized copy of documents to support changes in marital status not previously reported to the DMPO.

The DMPO will continue to provide desk-side briefings for Soldiers who do not receive orders in time to attend a group briefing. Command teams with Soldiers who cannot attend a regularly scheduled briefing due to time constraints should call 255-3939, 255-9182 or 255-3115.

Siren test

The Installation Operations Center conducts a test of the emergency mass notification system the first Wednesday of each month at 11 a.m. At that time people will hear the siren over the giant voice. No actions are required.

Retiree council meetings

The Fort Rucker Installation Retiree Council meets the first Thursday of each month in The Landing at 11:30 a.m. The meeting is an open forum and all retirees are invited to attend. Retirees are also encouraged to apply for one of the open positions on the council.

For more information, call 255-9124.

PRESIDENT:

ISIL knows it will lose — already shifting strategy

By Jim Garamone
Department of Defense News

PHOTO BY AIR FORCE TECH. SGT. BRIGITTE N. BRANTLEY

President Barack Obama, center, Vice President Joe Biden, left, and Defense Secretary Ash Carter greet each other during a meeting of the National Security Council at the Pentagon Aug. 4.

WASHINGTON — After presiding at a meeting of his National Security Council in the Pentagon Aug. 4 President Barack Obama said Islamic State of Iraq and the Levant leaders know they will lose in Syria and Iraq, and they are already shifting their strategy in advance of that sure defeat.

This was the most recent of the president's meetings to emphasize the whole-of-government approach needed to defeat ISIL.

Local forces have made significant progress against ISIL in Iraq and Syria, the president said. They have taken key territory from ISIL and are preparing campaigns against ISIL in Mosul. In Syria, he said, they are choking off the last entry to the ISIL stronghold of Raqqa.

Tactics shift

"In fact, the decline of ISIL in Syria and Iraq appears to be causing it to shift to tactics that we've seen before – an even greater emphasis on encouraging high-profile terrorist attacks, including in the United States," Obama said at a news conference after the meeting. "As always, our military, diplomatic, intelligence, homeland security, and law enforcement professionals are working around the clock, with other countries and with communities here at home, to share information and prevent such attacks, and over the years, they've prevented many."

Still, nothing can be certain or foolproof, the president said. "It is still very difficult to detect and prevent lone actors or small cells of terrorists who are determined to kill the innocent and are willing to die. And that's why, as we discussed today, we're going to keep going after ISIL aggressively across every front of this campaign."

The military portion of the counter-ISIL strategy is showing great progress, the president said. The coalition air campaign continues to hit ISIL targets wherever the terrorists try to hide. American pilots are doing their absolute best to avoid civilian casualties, in stark contrast to ISIL, which uses noncombatants as shields.

"With our extraordinary technology, we're conducting the most precise air campaign in history," Obama said.

Coalition and local forces continue to take out senior ISIL leaders and commanders, the president said, and this is having an effect on the organization's command and control and its discipline. "None of ISIL's leaders are safe, and we are going to keep going after them."

ISIL losing ground

The terror group continues to lose ground in Iraq and Syria, Obama said. Iraqi forces have taken Fallujah and are pushing up the Euphrates River valley. They are also pushing up the Tigris River, taking Qayyarah, and are poised to launch an offensive against Mosul – the largest city still under ISIL control.

"Meanwhile in Syria," Obama said, "a coalition of local forces backed by our special operations forces and airstrikes continues to take the fight to ISIL as well. The coalition is fighting its way into the town of Manbij, a gateway for ISIL fighters coming in and terrorists heading out to attack Europe, which is why ISIL was fighting hard to hold it."

The successes against ISIL mean more intelligence the coalition can exploit to further take the fight to ISIL, the president said. "We also continue intense fire efforts against al-Qaida in Syria, which, no matter what name it calls itself, cannot be allowed to maintain a safe haven to train and plot attacks against us."

Two years ago, many in the Middle East saw ISIL as invincible, the president said, but not so much today. "ISIL has not had a major successful offensive operation in either Syria or Iraq in a full year."

ISIL knows it is losing

"Even ISIL's leaders know they're going to keep losing. In their message to followers, they're increasingly acknowledging that they may lose Mosul and Raqqa, and ISIL is right," he continued. "They will lose them. And we'll keep hitting them and pushing them back and driving them out until they do."

A plan is in place for the "day after" ISIL is gone, the president said. The Iraqi government, aided by coalition countries, will provide services to its people in areas formerly held by the terror group.

In Syria, the situation is more complex, Obama acknowledged, because ISIL and al-Qaida can hide in the clutter of the civil war going on there. The Assad regime has earned the condemnation of the world and Russia must work with the world community to pull the situation back from the brink.

"The U.S. remains prepared to work with Russia to try to reduce the violence and strengthen our efforts against ISIL and al-Qaida in Syria, but so far Russia has failed to take the necessary steps," the president said. "Given the deteriorating situation, it is time for Russia to show that it is serious about pursuing these objectives."

ISIL has raised its hateful flag in other areas, the president said. In Libya, U.S. airstrikes are helping forces loyal to the Government of National Accord in taking the ISIL stronghold of Sirte. Obama said U.S. aircraft will continue the mission.

In Afghanistan, American service members will work with Afghan forces to find and eliminate members of the group, he added.

Whole of government

As he has been saying for years, Obama told reporters, military power alone is not enough, and more is needed to get to the root of this extremist ideology.

"So long as their twisted ideology persists and drives people to violence, then groups like ISIL will keep emerging, and the international community will continue to be at risk in getting sucked into the kind of global 'whack-a-mole,' where we're always reacting to the latest threat or a lone actor," he said.

The United States and allies – including most of the countries in the Islamic world – are working to counter violent extremism more broadly, Obama said. This includes addressing the social, economic and political factors that help to fuel groups such as ISIL and al-Qaida in the first place.

"Nothing will do more to discredit ISIL and its phony claims to being a caliphate than when it loses its base in Raqqa and in Mosul," he said. "And we're going to keep working with partners, including Muslim countries and communities, especially online, to expose ISIL for what they are: murderers who kill innocent people, including Muslim families and children as they break the Ramadan fast, and who set off bombs in Medina near the Prophet's Mosque, one of the holiest sites in Islam."

The president said the United States must do a better job of "draining" the ideology that is behind the attacks. The ideology emanates from the Middle East and appeals to a very small proportion of Muslims, but the ideology "has been turbocharged over the internet, and combating that will take time as old orders collapse and new ones are born."

How Americans respond to this threat is as important as the efforts to destroy ISIL and prevent these networks from penetrating, the president said. "The reason it is called terrorism, as opposed to a standard war, is because these are weak enemies that can't match us in conventional power, but what they can do is make us scared.

"When societies get scared, they can act in ways to undermine the fabric of our society," he continued. "It makes us weaker and more vulnerable and creates politics that divide us and hurt us over the long run. If we remain steady and steadfast and vigilant, but also take the long view and take the perspective and remind ourselves of who we are and what we care about most deeply and cherish and what's good about this country … then we'll be OK."

PHOTO BY NAVY PETTY OFFICER 3RD CLASS THEODORE QUINTANA

Two F/A-18E Super Hornets undergo preliminary checks on the flight deck of the aircraft carrier USS Dwight D. Eisenhower in the Arabian Gulf July 26. The USS Eisenhower and its Carrier Strike Group are deployed in support of Operation Inherent Resolve.

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Olympics live coverage available to most Soldiers worldwide

By Chris Ward
Army and Air Force Exchange Service

DALLAS — This year, for the first time, U.S. service members worldwide will be able to watch NBC Olympics' streaming coverage of the 2016 Rio Olympics from their desktop and personal devices.

The benefit is being provided at no cost to those who are currently serving in the U.S. military or retired military members by Comcast NBCUniversal in partnership with the Army and Air Force Exchange Service and U.S. cable, satellite and telco providers.

NBC Olympics will stream 4,500 hours of coverage, including live streaming all competition, as 10,500 athletes from 206 countries compete in 35 sports now through Aug. 21.

"We're excited to partner with Comcast NBCUniversal to deliver the Olympics to service members and their families, wherever they are called to serve," said Tom Shull, who serves as the director and chief executive officer of the Exchange. "Go USA!"

Retired Army Brig. Gen. Carol A. Eggert, serves as vice president of military and veteran affairs at Comcast, said the Olympics is a global, unifying event, and that it's fitting that coverage of the competition be made available to service members.

"We think it is extremely important to support our employees who are veterans or members of the National Guard and Reserve and the military community as a whole," Eggert said. "We are thankful to the Army and Air Force Exchange Service for working with us to deliver the excitement of the Olympics to the military community, no matter where they are located."

To watch, service members will access NBC Olympics' digital coverage from their computers or personal devices by visiting NBCOlympics.com or the NBC Sports app and choosing the Exchange as their service provider.

Due to content rights restrictions, an active shopmyexchange.com account will be required to verify eligibility. Content rights restrictions will also apply to some locations outside the continental United States.

When Comcast NBCUniversal offered the service, a collaborative team including the Defense Media Activity, Defense Information Systems Agency, the Exchange and DHI Telecom (an Exchange internet, mobile and IPTV provider) swung into action to develop the technical solution required.

Additional information will be available on shopmyexchange.com. To see a day-by-day list highlighting events to watch, go to NBCOlympics.com.

In addition to the streaming content, the American Forces Network, or AFN, will also offer extensive NBC Olympics' broadcast and cable coverage on its television services for the overseas American military communities around the world.

Viewing requires a shopmyexchange.com account. Due to broadcasting regulations, NBCUniversal is only allowed to show NBCUniversal Sports content on the Internet in the United States and U.S. territories. Users outside of these locations will be able to access content on a U.S. military base, and only on previously approved Internet ranges.

School

Continued from Page A1

ing out of school, but you don't want them to completely forget what they've learned throughout the year, so we tried to keep their minds ripe by talking about what they would be excited to learn the next year and things like that. I think that's very important."

For Sammy Jones, military spouse, whose daughter, Julia, attends FRES, the first day of school can be a somber moment.

"I love having Julia throughout the summer to spend with me and it can always be a little sad to see them go back to school," she said. "You get used to having them around for a bit and then they have to go back, but I know that they're just going to get a great education, so it makes me glad to know they're in good hands."

Keeping that education great is a key focus, said Gilmer.

"We are always focused on highest student achievement and our scores reflect that," said the FRES principal. "However, this year we are adding a few new features."

Students will be able to participate in Teambuilding Fridays where they will be able to get with special area teachers to participate in different activities that will promote problem solving, creativity, communication, collaboration, social skills and more, said Gilmer.

"Students will not only have a blast, but they will also learn how to build valuable people skills," she said. "We are proud to serve America's best, and we continue to grow and strengthen our support of our military families."

That learning experience also extends to the primary school, where Deas said the goal for the new year is to continue to excel in reading, where FRPS was ranked No. 1 on the Reading Performance of Students in Department of Defense Education Activity grades kindergarten through third.

"We are also excited about the second year adoption of College and Career Readiness Standards for Math, and look forward to honing our skills during the continued rollout of the math materials," said the FRPS principal.

With all of the right tools in place, both principals predicted an outstanding year for the students on Fort Rucker.

Vigilance

Continued from Page A1

links to other sites, as well, that they can utilize."

But with all of the training that people can receive, Greenawalt and Whittaker both agree that it comes down to people remaining vigilant, which in many cases can be the forefront of the installation's defense.

"Our law enforcement is the reactionary force to reported activities, but they need more eyes and ears out there to help them – every person is a sensor," said the antiterrorism officer. "Authorities can't be everywhere at once."

Greenawalt also stressed that 911 should only be called for emergency situations, but people can call the non-emergency line at 255-2222 to report any suspicious activities.

STOMP

Continued from Page A1

national model for this type of training, said the EFMP manager.

Throughout this workshop, parents will have the opportunity to learn about how they can access special programs that can help their child or children as they grow and go through the education system, she added.

For example, there are services that parents can get called the Individual Family Service Plan, which outlines services that can be provided to children from birth to 36 months with special needs, such as speech therapy or occupational therapy, said Cornish.

Additionally, once a child transitions out of that age, they can transition into a new program called the Individual Education Program, which is a more stringent program to help children with special needs be successful through the public school system, she said.

"There are lots of programs to help that child be successful throughout their education, and the IEP is there for that, and, in most states, children can continue through that program through to the age of 21 in the public school system," said the EFMP manager.

Qualification for the IEP program is rigorous, but if children don't qualify for the program, they can learn about other programs that can help them throughout the education process, she said, adding that this is why STOMP exists – to help parents understand what they need to do in order to get the help they need for their children.

"This is a very beneficial program to them because a lot of times if parents don't know what to ask then they can't get the services," said Cornish. "If they come, these are the people who have put an extensive amount of time into researching the laws and changes and updates to the programs. They can tell them what they need to ask or how to ask – this is an excellent opportunity for them."

For more information, call 255-9277 or 255-3643.

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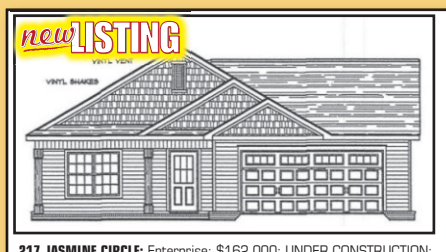

217 JASMINE CIRCLE: Enterprise: $162,000: UNDER CONSTRUCTION: 3 BR/2 BA/2 car garage. Tucked in the woods off Boll Weevil Circle. While providing privacy, they offer the convenience to schools, shopping, golf, restaurants and minutes from Ft. Rucker. Security system, wood floors, stainless appliances, natural gas heat/cooking/water heater, low E windows, irrigation system, 2" faux wood blinds, framed mirrors in bathroom and tray ceiling in grandroom and fence across back property line. **BILLY COTTER CONSTRUCTION, INC. 347-2600.** *MLS 20161426*

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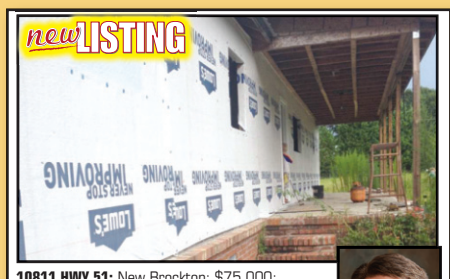

10811 HWY 51: New Brockton: $75,000: Perfect opportunity to customize your dream home from the front door to the back. Bring your builder and pick your finishes. Newer pool liner and metal roof. **CARL SHEFFIELD 954-651-6722.** *MLS 20161470*

new LISTING

119 BROOKWOOD: Cotton Creek: Enterprise: $265,000: Immaculate brick & vinyl home with great curb appeal is just the beginning. Step into this 4 BR/2.5 BA home and appreciate its open plan boasting new carpet & paint. Granite kitchen counter tops, stainless appliances & glass tile back splash compliment the spacious eat-in kitchen, grandroom with gas log fireplace, formal dining room & large master with separate shower & Jacuzzi in bath. Wood privacy fence offer backyard privacy while entertaining on large pergola covered patio. **SAM HELMS 798-3357.** *MLS 20161479*

new LISTING

117 BELVEDERE: Valley Chase: Enterprise: $156,500: All brick and stone exterior, custom cabinets with granite counter tops, wood floors in foyer and grand room, trim and crown, beamed ceiling in living area, whirlpool in master bath with separate shower and many more features throughout. VA foreclosure to be sold as is. Alabama Right of Redemption will apply. Prior to seller receipt and approval of the full title package from foreclosure, title to the property will be conveyed by a quit claim deed. **NANCY CAFIERO 389-1758 & BOB KUYKENDALL 369-8534.** *MLS 20161491*

new LISTING

105 PINEVIEW: Ozark: $73,500: Wonderful home on cul-de-sac. Large, fenced, over-sized tree shaded lot waiting for that pool or garden. Lot is just over a 1/2 acre. Has a formal living room and den, plus eat-in kitchen. Perfect for family or retirees. Convenient to Fort Rucker and Dothan. **PAT LEGGETT 406-7653.** *MLS 20161511*

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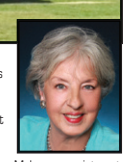
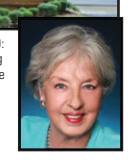


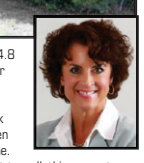
603 N JOHN: New Brockton: $89,500: Have you been searching for a 4 bedroom 2 bath home? This is it! Numerous updates over the past few months to include -- new flooring, kitchen with new appliances, cabinets and counter tops, 2" faux wood blinds, light fixtures, ceiling fans, large capacity hot water heater, new bathroom fixtures & cabinetry, and neutral paint colors throughout the home. Great covered front porch and covered back deck overlooking shady back yard for relaxing. Make an appointment today to view this ready to move in home. **JUDY DUNN 301-5656.** *MLS 20161517*

new LISTING



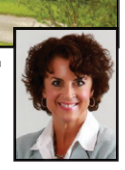
301 ARROWHEAD: Gateway Estates: Enterprise: $424,900: Absolute must see in Gateway. Main level offers a stunning study with cherry paneling, formal living room with fireplace and opening onto a large raised terrace overlooking beautifully manicured grounds, formal dining room, relaxing family room opening onto covered porch, wet bar & spectacular kitchen with dining area, pantry & informal sitting area w/fireplace. Upstairs are three spacious bedrooms and laundry room. The fantastic master suite has a wood burning fireplace and private second floor balcony. **JUDY DUNN 301-5656.** *MLS 20161527*

new LISTING



545 CR 147: New Brockton: $40,000: Approximately 4.8 acres of rolling land. Trees line the front of property for privacy. Current owners put in water & electric. Small shed on property conveys. Back of property is approx. 873 feet in length and neighbors have fence lining back of property. Property is 311 feet deep. Trees have been thinned out some. Perfect location to tuck away a home. "Privacy" is what this location is all about. You will want to walk this property. Mailbox is in front of property. **SHAWN REEVES 475-6405.** *MLS 20161528*

new LISTING



2157 CR 533: New Brockton: $183,000: Home situated on approx. 5.6 acres. Pasture, Horse Barn, Pole Barn, Shop. Lots of outdoor living space. 80'x12' back porch lines back of home. New vinyl, double pane windows - 2015. Roof - 2007. Gorgeous new front door. Extra insulation in attic. Two living areas. Currently rents pasture area & barn. Current owners kids go to Enterprise schools w/waiver. Minutes from Boll Weevil Circle. Buyer to satisfy self on accuracy of all information. Out buildings sold "as is". 36"doors throughout. Roll in shower. **SHAWN REEVES 475-6405.** *MLS 20161531*

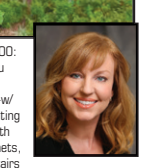
new LISTING

28 SOMERSET: Daleville: $45,900: Great investment opportunity in this very nice townhome. Recent maintenance and upgrades. **PAT LEGGETT 406-7653**. *MLS 20161533*

new LISTING

208 NORTHSIDE: Enterprise: $124,900: New vinyl and carpet, all new appliances, fans and fresh paint inside and out. **TEXT TERRI 406-2072 & JACKIE THOMPSON 406-1231.** *MLS 20161538*

new LISTING



101 E ROBERTSON CT: Tartan Pines: Enterprise: $290,000: This custom built 3bd/2ba home boasts of upgrades you have to see! The family room has a cathedral ceiling w/ beams, gas fireplace, and hardwood. The open kitchen--w/ a window looking at the breathtaking backyard-- has lighting under and above the kitchen cabinets, lighting underneath the breakfast bar, gas range, porcelain sink, glass cabinets, pocket door to large pantry. There is a half bath downstairs & the Master bedroom w/ a huge shower, bidet, & the biggest closet complete w/ island! Other bedrooms up. **MAGGIE HAAS 389-0011.** *MLS 20161151*

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73 MAREE: Come see the nicest home in The Woodlands. This stunning 3 bedroom home is just minutes from Ft. Rucker and there is easy access to highways! Come view today! **CHRIS ROGERS 406-0726**

$159,000

97 FOXCHASE: This won't last long! Everything says buy this now! The price is too good to be true but it is not a mistake! Sellers said to let them have it at this price. Firm but better than fair and at this price a $5000 sellers concession to buyers for closing plus home warranty and pre paids. This is your day and your blessing, don't miss it! **FRAN & DON KALTENBAUGH 790-5973**

TARTAN PINES

180 ROSEMOUNT COURT: Thoughtfully designed custom built brick traditional 2 story set at end of cul-de-sac -- covered front porch wraps around to sunroom, screen porch overlooking patio & landscaped back yard, 2 double sided gas fireplaces, 4 bedroom, 2 1/2 baths, formal dining & breakfast room, large kitchen w/stainless appliances & beautiful glass front cabinets, 2 story family room - over 3,100 square feet. Impeccable condition, quality and superb comfort for $375,000. **JUDY DUNN 301-5656**

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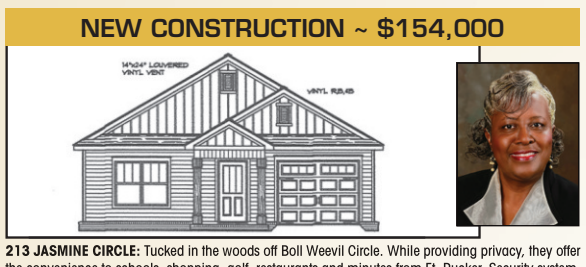
NEW CONSTRUCTION ~ $154,000



213 JASMINE CIRCLE: Tucked in the woods off Boll Weevil Circle. While providing privacy, they offer the convenience to schools, shopping, golf, restaurants and minutes from Ft. Rucker. Security system, wood floors, stainless appliances, natural gas heat/cooking/water heater, low E windows, irrigation system, 2" faux wood blinds, framed mirrors in bathroom and tray ceiling in grandroom and fence across back property line. (Maple Leaf Plan) **MARGE SIMMONS 477-1962**

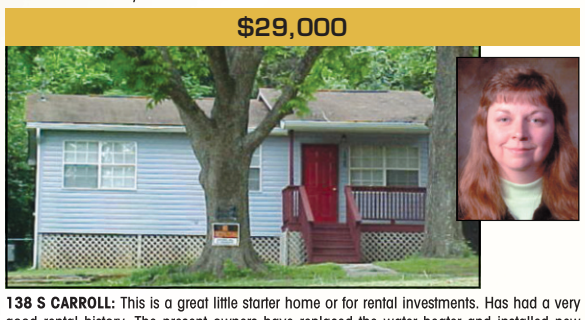
BRING THE HORSES ~ $175,000

320 CR 101: Over 15 acres plus a house! Horse lovers dream, property is completely fenced with hog wire, with chain link fence in yard front and back with five gates, separate fenced paddock in front yard with hog wire fence, circular drive. 22x32 barn with two stalls, lean to extension with Dutch doors, electric and water with inside and outside lights. 10x20 shed with shelves and ramp. Open floor plan with split bedrooms and den w/fireplace as well as formal living room. Great screened porch with stairs leading to pool. A MUST SEE! **EVELYN HITCH 406-3436**

$100,000

112 WOODALE: NEW ROOF! Come see this updated home on a convenient cul de sac street right off Rucker Blvd. The warm and inviting family room with a wood burning fireplace is the interior focal point. Fresh paint and new carpet throughout, a master w/a large walk-in closet, and 2 other split bedrooms, make this the perfect place for newlyweds or a young family. The large deck extends to a gazebo where everyone is sure to enjoy summer evenings with family and friends. Lots of storage and an interior laundry room. **JAN SAWYER 406-2393**

$29,000



138 S CARROLL: This is a great little starter home or for rental investments. Has had a very good rental history. The present owners have replaced the water heater and installed new vinyl siding and soffits. **DEBBIE SUNBROCK 406-9079**

$268,000

203 SONYA: Excellent Brick Home with split floor plan - Features grand foyer, open living room with fireplace, trey ceilings, formal dining room, breakfast nook, granite counter tops, ample cabinets, pantry, beautiful flooring, covered porch and patio, fenced yard with fire pit and much more - Convenient to Ft Rucker and shopping. **BOB KUYKENDALL 369-8534**

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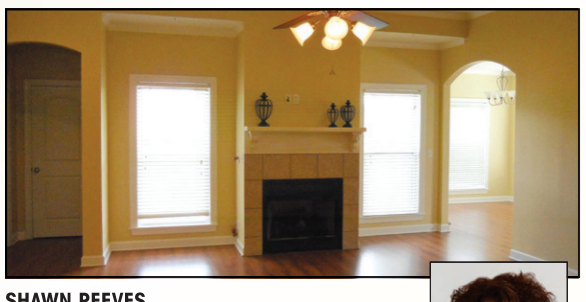
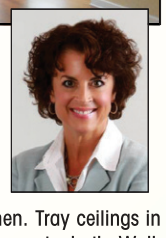
200 SANDY HILL IN OZARK $165,000





SHAWN REEVES
475-6405

Just like new. Freshly painted interior & exterior in June 2016. New Carpet. Rinnai tankless gas water heater. Stainless steel appliances to include gas range. Granite countertops give the kitchen a special touch. Access to the back deck from Kitchen. Tray ceilings in Living room & Master Bedroom. Double vanities in master bath. Walk in closets in all bedrooms! Tons of closets/storage. Security System. Matching Storage Shed. HVAC serviced-June 2016. This home is move in ready!!

DIRECTIONS: Andrews then right on 231 S. In 1/2 mile turn left on Camilla Ave. Right on Fairview Dr. then right on Fairview St. Right on Pine. Left on Sandy Hills Ct. Home is on the Right.

FIGHT TONIGHT

Combined division demonstrates capabilities for Army secretary

2nd Infantry Division
Public Affairs Staff Report

RODRIGUEZ LIVE FIRE COMPLEX, South Korea – Soldiers from the 2nd Infantry Division/Republic of Korea - U.S. Combined Division and its rotational elements highlighted the critical roles they play in strengthening the ROK-U.S. alliance – countering emerging threats and ensuring stability in the region – during Secretary of the Army Eric Fanning's visit to Camp Casey Aug. 3.

Fanning's visit to the peninsula was the fifth stop on his trip across the Pacific that kicked off July 25 with a focus on engaging with the Soldiers responsible for the Army's enduring and integral presence in the region.

"The first thing I've learned is the value of these engagements that the U.S. Army has with other armies. It's really remarkable to see when the Army does an exercise with another country, how much interaction there is with Soldiers from all levels, all the way down to the most junior enlisted Soldiers. And there's a tremendous value in that, both for our Soldiers and for the other military working with the United States," said Fanning.

Troops from 2nd ID/RUCD showcased the diverse missions performed by the combined division and the readiness created by its rotational warriors.

PHOTO BY SGT. COURTNEY SMITH CLAX

Secretary of the Army Eric Fanning gives the thumbs up as he takes off in one of the Army's last operational OH-58 Kiowas with 2nd Infantry Division/ROK-US Combined Division rotational 1st Squadron, 17th Calvary Regiment, 82nd Airborne Division, on Rodriguez Live Fire Complex, South Korea, Aug. 3.

After hopping into a Multiple Launch Rocket System to join the crew for a simulated fire mission, he took a fast ride in a Bradley, experienced some emerging chemical, biological, radiological, nuclear and explosives capabilities, and rounded out the action by arming, flying and firing from one of the Army's few remaining operational OH-58 Kiowas.

"He can come visit 2nd Infantry Division any time. I like it when they're hands on," said Maj. Gen. Theodore "Ted" Martin, 2nd ID/RUCD commanding general.

Martin pointed out that many of the troops Fanning interacted with were part of the division's rotational elements including the 1st Armored Brigade Combat Team, 1st Cavalry Division, out of Fort Hood, Texas; the 1st Squadron, 17th Calvary Regiment, 82nd Airborne Division, out of Fort Bragg, North Carolina; and the 3rd Battalion, 13th Field Artillery Regiment out of Fort Sill, Oklahoma; all serving nine-month tours in Korea.

"Ours is a trained and ready force with rotational units, and it's a concept that's working, and (Fanning) heard it from the commanders down to the sergeants and the Soldiers that it's working well along with the partnership with our ROK teammates. It's a concept that builds readiness," Martin said.

Fanning credited the unit's readiness to what he witnessed on the peninsula to the remarkable commitment between the U.S. and ROK governments and militaries. He also credited the ongoing relocation of U.S. forces south on the peninsula as a win-win – increasing readiness and modernization of facilities, in large part to the Korean government's remarkable contributions.

The secretary will conclude his Pacific tour with a stop in Alaska.

Training center, clinic rehearse military working dog MedEvac

By Kristen Schabert
U.S. Army Medicine Public Affairs

FORT IRWIN, Calif. — When the alarm rang out for a medical evacuation, the Soldiers of 2916th Aviation Battalion sprang to action. Then, the call came over the radio that the patient was not the typical MedEvac patient – it was a military working dog.

As the teams at the National Training Center at Fort Irwin gear up for another rotation, they practice everything. The rehearsal MedEvac on July 27 was nothing out of the ordinary schedule for the units involved, except it involved a simulated furry four-legged Soldier instead of a human.

Maj. Sean Donohue, NTC surgeon, said rehearsal of critical functions is essential at NTC. Although C Co. 2916th Avn. Bn. is one of busiest military air MedEvac units in the world – flying as many missions as some of the busiest deployed units – rehearsals are paramount.

"Typically, our MedEvac crews will fly five to eight missions over the course of the 14 days of training, in addition to the support that they provide to the garrison community and even out to parts of the inland empire," the surgeon said. "MedEvac rehearsals are an important part of preparing for a rotation here at NTC – they validate our protocols and identify potential problems we may not have considered previously.

"NTC has a wide variety of training participants and I wanted to emphasize that this rotation," Donohue added. "Military working dogs are occasionally part of training here at NTC and we wanted to make sure we were prepared in case one was injured during training,

SEE MEDEVAC, PAGE B4

ARMY TECH

Scientists showcase advanced projects for DOD deputy secretary

By David McNally
Army Research Laboratory Public Affairs

ABERDEEN PROVING GROUND, Md. — The Department of Defense's No. 2 official spent time with scientists and engineers at the Army Research Laboratory Aug. 2.

Deputy Secretary of Defense Robert O. Work inspected technologies that align with DOD's vision of the "Third Offset Strategy," advanced projects in areas like robotics, miniaturization, and manufacturing that are meant to ensure the United States can maintain military superiority without matching an adversary plane-for-plane, tank-for-tank or troop-for-troop.

During the visit, Army engineers demonstrated a robot exploring its terrain in real time and teaming with a human operator to provide what may become a situational awareness asset for future Soldiers.

"We see robots as teammates in support of the offset strategy," Dr. Stuart Young, chief of the laboratory's Asset Control and Behavior Branch, told the deputy secretary. "Currently robots are tools, and we want to make them organic team members with our Soldiers."

Work also observed the laboratory's efforts in additive manufacturing, otherwise known as 3-D printing.

PHOTO BY JHI SCOTT

Army engineers show a 3-D printed UAS to visiting DOD officials Aug. 2 at the U.S. Army Research Laboratory, Aberdeen Proving Ground, Md.

"We're working on structural hybridization," explained L.J. Holmes, the laboratory's lead for additive manufacturing. "We have a facility with additive manufacturing, or 3-D printing equipment. It's not feasible for us to send that into the field – at least not right now."

Holmes said they are working on processing multiple materials in one box.

"We have equipment specifically designed to print metals, but through the work we've done here at (ARL), we can process metals, ceramics, polymers and glass on one machine."

The idea is that one day in the near future these devices will be capable of printing a part for a truck suspension one day and ceramic body armor the next – whatever is needed on-demand at the point of use, he said.

Army scientist Dr. Jean Vettel and her team demonstrated how the lab is capturing data straight from the brain and enhancing machine learning.

"Whenever we want humans and machines to work well together as a team, one of the challenges is how to get more knowledge about the human," Vettel said. "Our goal is to find out how we can do neuroscience where we can start quantifying individuals and then design individualized technologies."

Army engineers also showed the

SEE TECH, PAGE B4

SPLASH TIME

PHOTO BY SPC. SCOTT LINDBLOM

Rangers assigned to 1st Battalion, 75th Ranger Regiment jump from a 3rd Combat Aviation Brigade UH-60M Black Hawk during a water insertion off the coast of Tybee Island, Ga., July 20.

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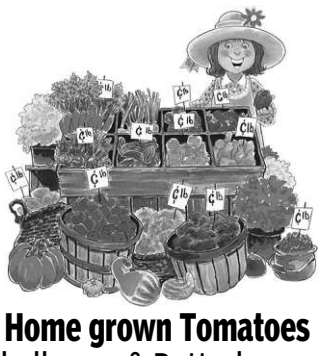

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Crew chief brings vigilance, experience to Romania

By Spc. Timothy Jackson
For Army News Service

CINCU, Romania — Canadian and U.S. Soldiers ran through the tall grass as the blades of nearby UH-60 Black Hawks spun madly. Soldiers new to the aircraft squatted as low to the ground as possible for fear of losing an appendage, or worse.

The Soldiers were participating in an air assault training mission – part of the Saber Guardian Exercise at the Romanian Land Forces Combat Training Center in Cincu.

For most of the 10 countries and the 2,800 Soldiers involved, there are many first-time experiences. Sgt. 1st Class Miguel Camacho, a crew chief and flight platoon sergeant with C Company, 3rd Battalion, 501st Aviation Regiment from Fort Bliss, Texas, has already had more than his share of new experiences.

PHOTO BY SPC. TIMOTHY JACKSON

Sgt. 1st Class Miguel Camacho, a crew chief with C Co., 3rd Bn., 501st Avn. Regt. from Fort Bliss, Texas, guides the pilot around a tree during a masking and unmasking maneuver July 29 during Saber Guardian 16 at the Romanian Land Forces Combat Training Center in Cincu, Romania.

A crew chief since 1992 with more than 4,000 hours of flight time, Camacho was there to greet the adrenaline-charged Soldiers – wearing a skull-mask reminiscent of Marvel Comics' Ghost Rider.

"Rarely, anything's new now," he said after the Black Hawk landed in the pastoral hills of the Romanian countryside.

With the blank expression of his skull mask off, he flashed a toothy smile, his positive attitude contagious. His job was not just to ensure the safety of passengers, but also to ensure the safety of the aircraft and its crew. He was the flight steward of a flying roller coaster, with a penchant for thrill.

"Until you live it, you won't actually get the experience," Camacho observed. "You can see vehicles on a TV screen or on a PowerPoint slide all you want, and now you're getting exposed to the vehicles that you see on a slide. (In real life) if it's not an Abrams (tank) it might be a T-80, and it's coming at you."

To take cover from enemies in a helicopter, the pilot must perform maneuvers called "masking" and "unmasking," which means staying behind terrain features such as trees, hills and buildings. The dynamic environment comes with the need to constantly wear a headset.

"You can hear all four crew members on the aircraft constantly looking for obstacles, clearing passes and looking for anything that may cause a danger," Camacho said.

During Camacho's career, the globe seems to have spun beneath his feet as fast as a Black Hawk's spinning rotor blades. The aircraft has taken him on multiple deployments to the Middle East, as well as domestic and foreign training sites.

While Romania may just seem like another dot on the map for him, Camacho's fearlessness when facing new challenges instills the same inspiration in his crew and passengers as the UH-60 Black Hawk in flight.

MedEvac

Continued from Page B1

and it is something we have not practiced in a while."

As the crew of the UH-60 Black Hawk expertly landed the aircraft, the crew chief and flight medic ran to take care of the injured patient. The simulated scenario involved an explosion that killed the dogs' handler and severely wounded the dog, resulting in a probable leg amputation. The medic wrapped the dog's paw on the flight back to the Weed Army Community Hospital, where the emergency room crew was waiting to transport the victim inside for triage.

Seeing the patient was a dog, they carefully transported it to the ambulance for transport to the veterinary clinic – the staff and the veterinarian standing by to assess and treat the patient.

"I am really pleased with how our rehearsal went today," Donohue said. "Our flight crews and medics are incredibly proficient, and our ER is prepared to receive patients and conserve fighting strength at a moment's notice.

"Today's training was really a surprise to all the players involved and it really validated to the community that everyone knows what to, who to contact and where to go – it really highlighted the readiness of NTC, Weed Army Community Hospital and Public Health Command to meet the needs of our community," Donohue said.

Tech

Continued from Page B1

Joint Tactical Aerial Resupply Vehicle, a rectangular-shaped quadcopter that can currently carry up to 300 pounds of cargo within a 10-mile range.

"In a firefight, when a Soldier is running low on ammunition, resupply is critical," said Sgt. 1st Class Daniel Guenther, an enlisted adviser at the laboratory. "I've had situations where speedballs were dropped off to me by helicopters."

In the military context, a "speedball" refers to a bag of supplies, usually ammunition, dropped from a plane or helicopter to Soldiers in the field.

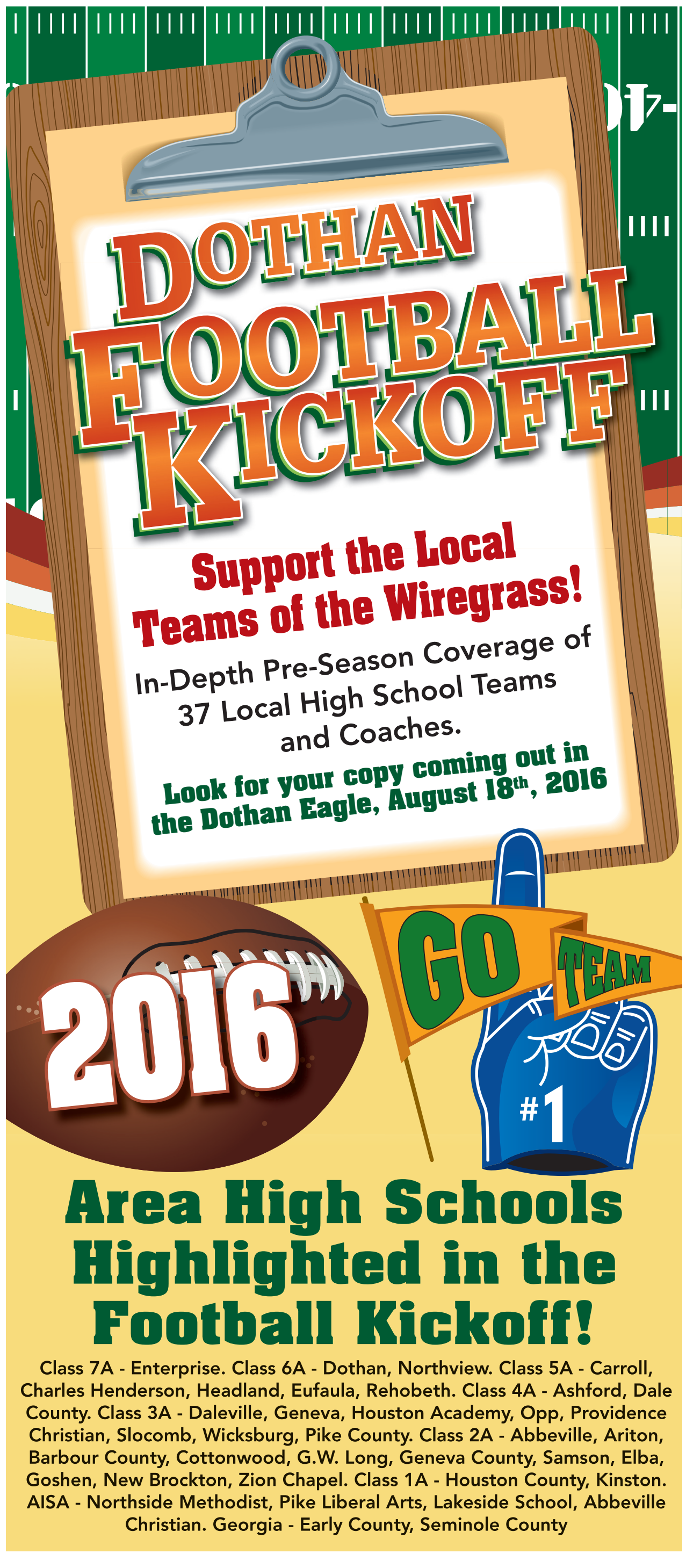
"What are the implications of that?" asked Army researcher Tim Vong. "We're working with users in the joint community to look at this concept."

ARL transferred the JTARV program to the Armament Research, Development and Engineering Center at Picatinny, New Jersey, but the lab researchers still serve as experts on matters like aeromechanics, propulsion, intelligence and controls. The Marine Corps recently joined the program.

During the half-day visit, many other scientists and engineers showcased additional technologies, such as innovative advances in active armor protection and materials sciences.

"Our mission is to organize, train and equip a joint force that is ready for war and that is operated forward to preserve the peace," Work said.

Work has likened his role to the chief operating officer of one of the biggest corporations on the planet with the responsibility to build the defense portfolio.



DARPA
Autonomous bug-hunting bots will lead to improved cybersecurity
Story on Page C3

AUGUST 11, 2016

Stables provide place for riders to hang hat

By Jeremy Henderson
Army Flier Staff Writer

FILE PHOTO

Cede Hannah Francis, and Lillian Dunlavy, Army family members, take a break from riding their horses at the Fort Rucker Riding Stables in this file photo.

Recent and future upgrades continue to improve an already valuable resource nestled a short drive down Hatch Road.

Fort Rucker's Riding Stables have served the post community for years and John Clancy, outdoor recreation manager, hopes ongoing improvements to the facility continue to give equestrian enthusiasts a place to call home.

"The clubhouse has been recently upgraded and will hold about 40 people for private parties," he said. "It has a small kitchen, heat and air conditioning, and video equipment. Rest rooms are also available, with wheel chair access. We also plan on upgrading trails for future horse trials, such as cross country."

The stables are located on Hatch Road just south of the Silver Wings Golf Course, surrounded by over 10,000 acres of wooded trails. The complex includes a clubhouse with bathroom facilities and an emergency phone.

Four community pastures, hay barn, 40 duplex barns with individual tack rooms and paddocks are available on-site, as well as 67 stalls for transient and show horses.

"We board privately-owned horses for military members, Department of Defense civilian employees, Department of Army civilians and contractors," Clancy said. "If there is room, we also board for civilians.

"We offer a feed and cleaning service at an additional cost, if the owner requires it," he added. "Each half of the duplex unit has a 12-by-12 stall, an adjoining 6-by-10 tack room and a roughly 30-by-60 turn out directly behind each unit."

Patrons also have access to two large, lighted arenas, two round pens for training, a covered farrier shed and double wash rack.

Riders have access to about 30 miles of trails and some cross country jumps. The facility also boasts four large pasture turn-out areas for horses – two for mares and two for geldings.

"We offer a quiet, relaxing area to enjoy your favorite pastime as well as safety for you and your family," Clancy said. "We will board your horse and take care of it while you go away for the weekend, or longer."

Although the surrounding horse trails are part of the riding stables, Clancy said riders not utilizing the stables are allowed to utilize the trails with certain provisions.

"We welcome outside riders, but they are required to wear orange vests and have a copy of a current Negative Coggins with them before they unload their horse," he said. "They must also pay a fee per rider for the day, or they can purchase a yearly single or family membership.

"As we share the areas with others – training, fire prevention, hunting, etc. – only certain areas are open to us on specific days," he added. "Each rider must check the public board for the day's availability."

Clancy welcomes riders of all experience levels, including those who have never ridden a horse, but urges first-time riders to take lessons before hitting the trails.

"Be aware of all that entails keeping a horse in the way of daily care, initial tack purchases, hoof care, feed programs and safe riding," he said. "In the near future, we should have a qualified instructor on contract that will furnish a horse for lessons for ages 7 and older."

For more information, call 598-3384.

COOL TREATS

Youth center open house invites students to 'chill' after school

By Jeremy Henderson
Army Flier Staff Writer

PHOTO BY NATHAN PFAU

Friends D'Angelo Threat and Isaiah Reynolds play foosball as Madison Haly watches on during last year's youth center open house. The center will host this year's event Friday.

Students and their families are invited to celebrate the start of a new school year during the Fort Rucker Child, Youth and School Services Youth Center open house Friday.

The "Ice Box Party" will provide cool treats from 5-7 p.m. at the youth center, Bldg. 2800, to help cool off after a hot and humid school week. Students and their families can choose from frozen yogurt, popsicles, ice cream, sundaes, smoothies and root beer floats.

"We can't say goodbye to hot weather just yet," Jeff Nunley, youth center facility director, said. "However, we can start the school year off with a 'chill' at the Youth Center Ice Box Party."

According to Nunley, students do not have to be registered with CYSS to attend the event and see what the center has to offer.

"They do not need to be members and those that are not will be given paperwork for registration if they are interested," he said. "Parents and youth can expect to learn about the different opportunities available through CYSS.

"We want to stress that our after school and open recreation programs are free," he added. "(Youth) must be registered with us, but it is absolutely free."

Students and their families who attend the open house will have the opportunity to tour the facility to see all of the different activity areas and displays.

"Attendees will also learn about the many different programs that we offer such as 4H, Keystone Club, Torch Club, Smart Girls, Passport to Manhood, Workforce Preparation, Homework and Technology Center," Nunley said.

"We want parents to know that their child is in good hands with the CYSS Staff and that they are in a safe environment," he added. "All activities are youth-driven and cover the four service areas: sports, fitness, and health; arts, recreation and leisure activities; life skills, citizenship and leadership opportunities; and academic support, mentoring and intervention services."

According to Nunley, CYSS helps youth gain valuable experience through unique volunteer opportunities.

"Our youth volunteer at events such as Freedom Fest, Children's Festival and other community service activities," he said. "Youth are able to track their volunteer hours for their portfolios."

Involvement with CYSS and the youth center has other, equally valuable benefits, according to Nunley.

"It keeps them busy and out of trouble during idle times and while parents are at work," he said. "It also gives them the opportunity to participate in our summer camps, which include field trips to many exciting venues, such as Big Kahunas, Wonder Works, Shipwreck Island, Wild Adventure Park, paint ball at Dothan Survival, Water World, SPLASH!, DAVE & BUSTER'S and more."

For more information, call 255-2260.

On Post

YOUR WEEKLY GUIDE TO FORT RUCKER EVENTS , SERVICES AND ACTIVITIES. DEADLINE FOR SUBMISSIONS IS NOON THURSDAY FOR THE FOLLOWING WEEK'S EDITION.

Youth center open house, ice box party

The Fort Rucker Youth Center will host an open house and ice box party Friday from 5-7 p.m. The event will feature frozen yogurt, popsicles, ice cream, sundaes, smoothies and root beer floats, along with activities designed to show what the facility offers. Youth art projects will also be on display.

For more information, call 255-2260.

Employment readiness class

The Fort Rucker Employment Readiness Program hosts orientation sessions monthly in the Soldier Service Center, Bldg. 5700, in the Army Community Service multipurpose room, with the next session Aug. 18. People who attend will meet in Rm. 350 at 8:40 a.m. to fill out paperwork before going to the multipurpose room. The class will end at about 11 a.m. The sessions will inform people on the essentials of the program and provide job search tips, as well. Advance registration is required and attendance at a session is mandatory for participation in the program.

For more information, call 255-2594.

Purple Extravaganza Skate Night

The Fort Rucker School Age Center will host its Purple Extravaganza Skate Night Aug. 19. The event will feature giveaways to see who can wear the most purple. Safety skate will take place 6:15-7:15 p.m. for $2 – parents must accompany children at all times. Regular skate is 7:30-9:30 p.m. and costs $5. Attendees must be registered members of child, youth and school services, and are asked to bring exact change.

For more information, call 255-9108.

Newcomers welcome

Army Community Service will host a newcomers welcome Aug. 19 from 8:30-11 a.m. at The Landing. Active duty, spouses, foreign students, Army civilians and family members are encouraged to attend. A free light breakfast and Starbucks coffee will be served. For free childcare, register children at the child development center by calling 255-3564. Reservations must be made 24 hours prior to the newcomers welcome.

For more information, call 255-3161 or 255-2887.

Parenting workshop

Army Community Service's Exceptional Family Member Program will host a Specialized Training of Military Parents Workshop Aug. 25-26 from 9 a.m. to 3:30 pm at The Commons. The two-day workshop will guide families with special needs children through complex systems that exist in the military, and educational programs within their community. This is an opportunity for parents to network with peers and professionals to gain knowledge about the local community and available sources.

For information on child care and to register, call 255-9277 or 255-3643, or register online at http://stompfortrucker.eventbrite.com.

Homeschool Q&A Session

The Center Library will hold its second session of Homeschool Q&A Aug. 25 from 1-2:30 p.m. This session is for new and experienced homeschool families. Parents are welcome to bring their questions and knowledge, and meet other homeschool families. The free event is open to authorized patrons and space is limited to the first 65 people to register.

For more information, call 255-3885.

Right Arm Night

The Landing Zone will host Right Arm Night Aug. 25 from 4-6 p.m., hosted by the U.S. Army Warrant Officer Career College. Right Arm Night is an Army tradition, promoting a night of camaraderie and esprit de corps as leaders come together and treat those who help them accomplish the mission. Complimentary appetizers will be served while supplies last. Right Arm Night is held every month, and both military and civilians are welcome.

For more information, call 255-0768.

Relocation readiness workshop

Army Community Service will host its relocation readiness workshop Aug. 26 from 9-10 a.m. in Bldg. 5700, Rm. 371D. Soldiers and spouses will receive information on benefits, entitlements, advance pay, government travel cards and more.

For more information or to register, call 255-3161 or 255-3735.

Illusionist show

The Landing will host an illusionist show Aug. 26 from 7-9 p.m. Tickets are $12 in advance and $16 at the door. Advance tickets are available for purchase at The Landing, Coffee Zones or MWR Central. VIP tables cost $150 (10 tickets). The family-friendly event is open to ages 12 and older – youth ages 12-17 must be accompanied by an adult.

For more information, call 255-9810.

DFMWR GRAPHIC

DFMWR Spotlight

Summer Luau

The SPLASH! 2016 Summer Luau is scheduled for Aug. 27 from 11 a.m. to 4 p.m. The luau will feature a limbo contest where the winner will receive free guest passes; a T-shirt tie-dying station – participants bring their own T-shirt from home; a dunk tank; corn hole stations; a bouncy house; swimming; a water slide; and an aqua climb rock wall. There will also be luau-themed food for purchase on the top patio from The Landing Zone. Cost for this event will be the daily admission fee or pass-holder fee.

For more information, call 255-9162.

Car seat safety class

September is Baby Safety Month, and the Fort Rucker New Parent Support Program and a certified child passenger safety technician are partnering to teach a child seat safety class Sept. 1 from 9-10 a.m. at The Commons, Bldg. 8950. The CPST will also conduct car seat checks from 10 a.m. to noon. The workshop is open to active-duty and retired military, Department of Defense employees and family members. Registration is required by Aug. 28.

For more information and to register, call 255-9647 or 255-3359.

EFMP Child and Family Campaign

The Fort Rucker Exceptional Family Member Program will conduct its process of identifying active-duty military families with special needs during its Child and Family Campaign Sept. 1-30. Special needs can include physical, intellectual, developmental delays, emotional impairments that require special treatment, therapy, education, training or counseling, according to EFMP officials.

Enrollment is mandatory for Soldiers with EFMs. Mobilized and deployed Soldiers are not eligible. When possible, Soldiers are assigned to an area where the medical and special education needs of their EFM can be met. Soldiers with a family member with a special need or disability or have knowledge of someone who is disabled or with a special need, should contact EFMP at Lyster Army Health Clinic, 255-7431.

Lyster's EFMP conducts EFM screenings, enrollments, updates and disenrollments. Army Regulation 608-75, EFMP, requires Soldiers to update EFM enrollment every three years, or sooner if services for special needs are no longer required.

For EFMP advocacy services, respite care, information and referral services, free education and training opportunities, resource library and relocation assistance, call Army Community Service EFMP at 255-9277 or 255-3643.

Small business counseling

Army Community Service will offer its small business counseling service Sept. 8. Appointments last for about an hour, with the first available appointment at 9:15 a.m. With several areas of counseling available, people need to call to make an appointment.

For information and to schedule an appointment, call 255-2594.

Family emergency preparedness training

The mobilization, deployment and stability support operations manager and the installation emergency manager wants to help Fort Rucker families be prepared for emergencies with training Sept. 8 from 9-11a.m. in Bldg. 5700, Rm. 284. When it comes to emergencies and disasters, it's not a question of if, but when, according to training organizers. The additional requirements placed upon families are constantly increasing.

For more information and to register for the event, call 255-9578 or 255-3161. Preregistration is required. Free childcare will be available, but people need to call 255-3564 in advance.

FORT RUCKER Movie Schedule for August 11-14

Thursday, August 11

The Shallows *(PG-13)* .....*7 p.m.*

Friday, August 12

Pete's Dragon *(PG)* .....4 & *7 p.m.*

Saturday, August 13

Pete's Dragon *(PG)* .....4 & *7 p.m.*

Sunday, August 14

Pete's Dragon *(PG)* .....1 & *4 p.m.*

TICKETS ARE $6 FOR ADULTS AND $5 FOR CHILDREN, 12 AND UNDER. MILITARY I.D. CARD HOLDERS AND THEIR GUESTS ARE WELCOME. SCHEDULE SUBJECT TO CHANGE. FOR MORE INFORMATION, CALL 255-2408.

DARPA:

Autonomous bug-hunting bots will lead to improved cybersecurity

By Cheryl Pellerin
Department of Defense News

ARMY GRAPHIC

LAS VEGAS — Seven teams whose cyber reasoning bots played in the Defense Advanced Research Projects Agency's Cyber Grand Challenge in early August proved that machines by themselves could find and fix software safety problems in a simplified version of the code used everywhere, every day.

The world's first all-machine hacking tournament wasn't the answer to all cybersecurity problems, DARPA officials said, but it was a big step forward in a technical area where the Defense Department's research arm aims to stir up a revolution.

The seven finalist teams represented an array of communities – academic pioneers from the field, security industry powerhouses and veterans of the capture-the-flag circuit. Each designed an innovative system that proved its skills during the CGC.

The competition played out in a parallel digital universe, as DARPA Program Manager Mike Walker recently characterized the stage holding 15 chilled air-gapped supercomputers running special software whose products were keenly observed by eight black-and-white-shirted highly expert referees.

Huge strides

"Our mission is to change what's possible so that we can take huge strides forward in our national security capabilities," DARPA Director Arati Prabhakar said after the CGC. "And if that's what our job is every single day, I think we did it today."

The winners included ForAllSecure, a startup founded by a team of computer security researchers from Pittsburgh. The company placed first, winning a $2 million prize.

TECHx is a team of software analysis experts from GrammaTech Inc., a developer of software assurance tools and advanced cybersecurity solutions, and the University of Virginia in Charlottesville. Its second-place prize was $1 million. And Shellphish, a group of computer science graduate students at the University of California-Santa Barbara, won $750,000 as the third-place winner.

The other finalists are CodeJitsu, a team affiliated with the University of California-Berkeley. CSDS, a professor and a post-doctoral researcher from the University of Idaho in Moscow. DeepRed, a team of engineers from the Raytheon Company in Arlington, Virginia. And disekt, four people working out of a technology incubator in Athens, Georgia, who participate in capture-the-flag competitions worldwide.

The CGC was co-located this year with DEF CON, one of the world's largest hacker conferences, and large portions of the massive audience in the Paris Hotel auditorium were hackers and other technical experts.

When Prabhakar spoke she described several of the agency's more than 200 active programs and big ambitions, many of which she invited audience members to examine and participate in.

Big Ambitions and Cybersecurity

One of these was a new program she said would be DARPA's next massive grand challenge – an effort called the Spectrum Collaboration Challenge.

"We're going to challenge teams to build radio networks with embedded artificial intelligence that will allow each of those radio networks to dynamically scan and form hypotheses and predict what's happening in radio spectrum," she explained.

By competing and collaborating with each other, the AI networks can dramatically advance the amount of capacity available from a fixed amount of spectrum, the director said..

Each one of DARPA's big ambitions depends on cybersecurity, Prabhakar said.

"We can't achieve these big dreams unless we can trust our data, trust our networks [and] trust the system that we are so completely reliant on today," she said. "And because of that a revolution in cybersecurity is also a big ambition at DARPA today. Cyber Grand Challenge is a big part of that."

Results are starting to come from the related DARPA portfolio, the director said, inviting the audience to engage with the agency and draw on fruits of the research.

"As we start developing this technology and as we start implementing it – ultimately, we hope, across the entire information ecosystem – as we do that we can start imagining a future where we actually have some foundation of cybersecurity," Prabhakar said.

"Not invulnerability," she added, "but we can live in a future where we can get on with the business of insuring the fruits of this phenomenal information revolution that we're all dependent on today."

Earning its place

In Walker's remarks he went back to 2005, recalling Stanley, the self-driving car that won the 2005 DARPA Grand Challenge.

Stanley was a future technology prototype and a research and engineering milestone, but not a particularly good self-driving car by today's standards, Walker said, noting that it was filled with computing, sensing and communications gear and couldn't drive on streets or handle traffic.

All the same, he said, "Stanley earned its place in the Smithsonian by redefining what was possible. And today the technology descended from Stanley and his competition are driving on America's streets all on their own. That long-awaited revolution is arriving on our streets and highways right now."

The CGC prototypes are just like Stanley, Walker said.

They work only on a very simple research operating system and spend a huge amount of computing power to think about the security problems of small example services. The complex bugs they found during capture the flag are impressive, but they're not as complex as real-world bugs, he added, and a huge amount of engineering must be done before such prototypes could guard the networks in use today.

"I invite you this weekend to imagine the technology that will follow these first prototypes and what that technology will mean," Walker said. "Imagine networks where zero day cannot happen to anybody, where zero day does not guarantee a hacker's success, where defenders work together with guardian machines to keep networks safe."

"Imagine getting a text message from the system that protects your business, letting you know it just learned about a new flaw in your document reader and synthesized a new patch all on its own," he said. "It's coming, and we have these three days to imagine it together."

Military applications for systems that emerge from these prototype machines will be the same ones that affect commercial off the shelf software from major vendors, which is what DOD buys, Walker said.

"The ability for commercial off-the-shelf software to be defended in the ways that I've described previously as the result of an open-technology revolution that occurs, we benefit along with everyone else," he added.

Common ground

With the audience, Walker briefly discussed formal verification, the field in which the security properties of native code are accompanied by a mathematical proof, and a DARPA-funded open-source technology that is a formally verified control system for a commercially available quadcopter.

"The research community behind this code believes that formal verification provides powerful promises about the absence of entire classes of flaws," he said, "and we'd love to hear from you about how strong this security really is. We also hope in the future to call for new frontiers to formal verification."

Next, Walker recalled a 2010 DARPA program called Cyber Fast Track whose program manager was network security expert and hacker Peiter Zatko, also known as "Mudge." The program offered alternatives to government contracts for security work by hackers and similar experts.

"All of that technology development happened because Mudge became the first person from this hacker community to come to DARPA to be a program manager," Walker said, noting that he went to a lot of Mudge's Cyber Fast Track talks and was inspired by the common ground that he forged between DARPA and the hacker community.

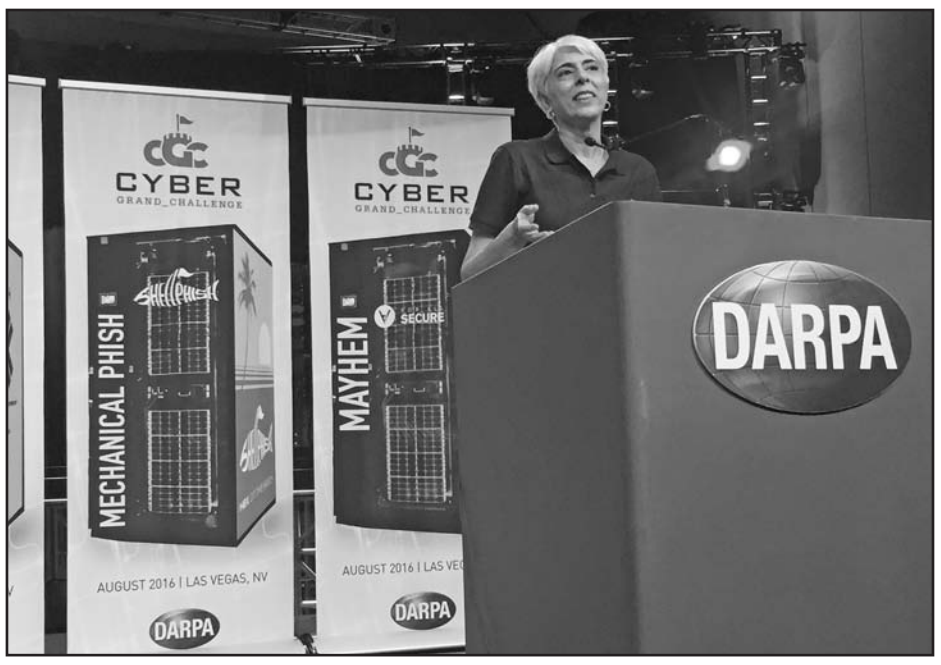


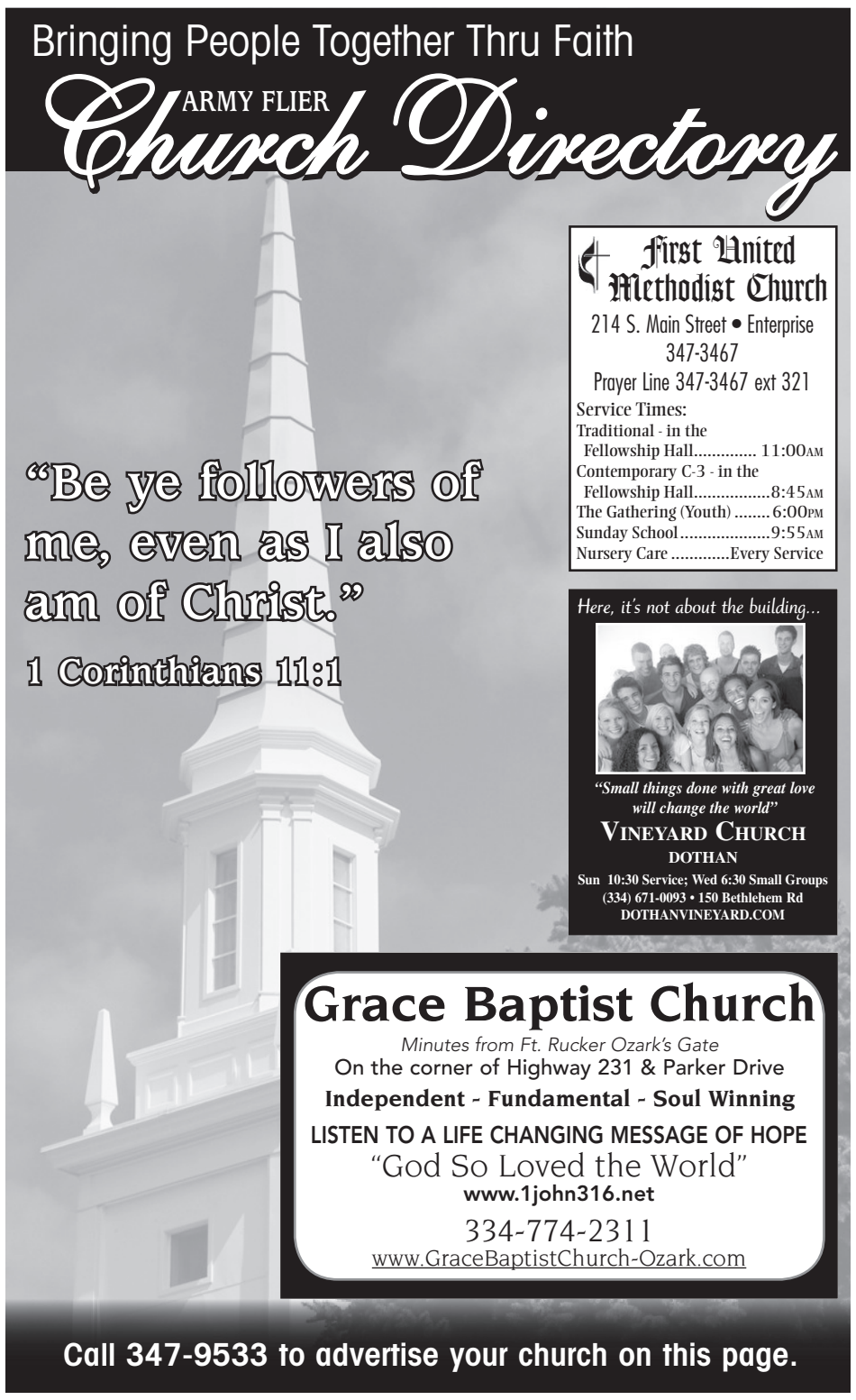
PHOTO BY CHERYL PELLERIN

DARPA Director Arati Prabhakar speaks during the award ceremony after the world's first all-machine hacking tournament Aug. 4 in Las Vegas.

"I'm proud today to be following in the tradition he started," Walker said, adding that some in the audience might be wondering if they could build their vision of future technology at DARPA.

"Mudge started a tradition of hacker program management at DARPA and it's my sincere hope that as my term limit ends and I leave the agency that some of you will step up to continue this tradition," Walker said. "Until it's easy to write defensible code and networks are secure by default, there must always be hackers working at DARPA to create … shared technology."

He asked interested audience members to get in touch if they "have a technology vision, the ability to lead teams and an aptitude for public service."



Park offers free admission until Sept. 5

Landmark Park
Press Release

DOTHAN — Landmark Park continues to be one of 2,000 museums and parks across North America to offer free admission to military personnel and their families this summer.

This popular program is in collaboration with the National Endowment for the Arts, Blue Star Families and the Department of Defense.

Organizations participating in the Blue Star Museums network will offer free admission to active-duty military personnel, including National Guard and Reserve, and their families now through September 5.

Blue Star Museums
arts.gov/bluestarmuseums

"We are proud to participate in this program, especially since Fort Rucker is so close by and we have a wide variety of family-oriented activities planned this summer" William Holman, Landmark Park executive director, said. "It is a great way to say 'thanks' to the men and women who serve our country."

The free-admission program is available to any active military member or family member who presents a Geneva Convention common access card (CAC), a DD Form 1173 ID card (dependent ID), or a DD Form 1173-1 ID card.

Free gate admission to the park will be granted to the military ID holder and up to five family members during the stated time period. For a complete list of Blue Star Museums, visit arts.gov/national/blue-star-museums.

"Special thanks are due locally to the Army Aviation Center Federal Credit Union for serving as our corporate partner in this program" Holman said. "Their financial support will help underwrite the cost to the park of offering this program."

Landmark Park is a 135-acre natural science and history museum located on the outskirts of Dothan. Features of the park include nature trails, a planetarium, playground, picnic areas, an elevated boardwalk, a turn-of-the-century farmstead with sheep, goats, pigs, chickens, cows and other farm animals and crops typical of an 1890's farm. In addition, the park includes a drugstore with operating soda fountain, one-room school, general store, and historic church, all preserved from the surrounding area. The park is open Monday-Saturday from 9 a.m.-5 p.m. and on Sundays from noon to 6 p.m. Admission is $4 adults, $3 for children and is free for park members and children age 2 and under. The park is located on U.S. Hwy 431 North, three miles north of Dothan's Ross Clark Circle.

For more info, call 334-794-3452 or visit www.landmarkparkdothan.com.

WIREGRASS COMMUNITY CALENDAR

IF YOU WOULD LIKE TO ADVERTISE YOUR EVENT, EMAIL JIM HUGHES WITH ALL THE DETAILS AT JHUGHES@ARMYFLIER.COM.

ANDALUSIA

ONGOING — The American Legion Post 80 has regular meetings the second Monday of the month, starting at 6:30 p.m., at the Legion Hall. For more information, call 222-7131 or visit www.andalusialegionpost80.org.

ONGOING — The American Legion Post 80 hosts a dance with live music every Saturday from 7:30-11:30 p.m. For more information, call 222-7131 or visit www.andalusialegionpost80.org.

DALEVILLE

ONGOING — Veterans of Foreign Wars Post 6020 Franchise J. Ballard Post membership meetings are at the post headquarters on State Road 84 every third Thursday of the month at 7 p.m. Breakfast is served Sundays, and games and TVs are available for entertainment. Meetings are open to all. The post can host parties, weddings, and hails and farewells. For more information, call 598-6211, 598-1297, 598-6211 or 379-9187.

ONGOING — Daleville Chamber of Commerce meets the second Wednesday of each month at noon at the Chamber of Commerce office in the Daleville Cultural and Convention Center. For more information, call 598-6331.

DOTHAN

AUG. 13 — Yard Party for Art, the Wiregrass Museum of Art's yearly fundraiser for arts education, will take place in the museum's garden. This year's event will feature five trailblazing bands from across the southeast, none of which has played in Dothan before. General admission tickets are $15 each and are available at WMA's website, wiregrassmuseum.org, or at the museum, located at 126 Museum Avenue in Dothan. Tickets will also be available at the gate the day of the event for $20. Tickets for Gold Plate dinners at The Depot Off Main with Harley's Landing are $75 each and can be purchased in person at WMA or by calling 334-794-3871. The dinner price includes admission to the concert. Yard Party for Art is restricted to patrons 18 years and older. Gates will open at 6 p.m. and music will begin at 6:30 p.m.

AUG. 11-12 — A two-day World Class Leadership Training Simulcast led by leading influencers, including John Maxwell (leadership expert), Patrick Lencioni (The Table Group), Horst Schulze (Capella Hotel Group), Erin Meyer (Professor at INSEAD), Bishop T.D. Jakes (senior pastor, The Potter's House), Melinda Gates (Bill and Melinda Gates Foundation) and more. Dothan Community Church, 4390 Westgate Parkway, will hosting the live simulcast that is being broadcast from Willow Creek Community Church outside of Chicago from 8:30 a.m. to 4:30 p.m. The cost is $89 for active military or Reserve. For more information and to register, visit www.dccgls16.com or call 334-794-9464.

ENTERPRISE

AUG. 22 — The Enterprise Women's Day Class of Community Bible Study at First Baptist Church will start meeting Mondays from 10 a.m. to noon. A children's ministry will be provided for children from babies through eighth grade. Homeschool credit will be available. The Bible study is an interdenominational study. The group will host preregistration at Boldly Going Coffee Shop, 1208 Rucker Boulevard, Aug. 4 from 8-10 a.m. For more information and to preregister, call 334-494-2039 or visit enterprise.cbsclass.org.

ONGOING — Disabled American Veterans Chapter 9 Enterprise-Coffee County meets the second Thursday of each month at 6:30 p.m. at Shane's Rib Shack. For more information, call 308-2480.

ONGOING — The American Legion Post 73 meets at the American Legion building at 200 Gibson Street on the fourth Saturday of each month beginning at 9 a.m. The building is across the street from the Lee Street Baptist Church. For more information call 447-8507.

GENEVA

ONGOING — The Geneva County Relay for Life meets the last Tuesday of the month at 6 p.m. at the Citizens Bank. For more information, call 248-4495.

MIDLAND CITY

ONGOING — Residents are invited to town hall meetings on the first Tuesday of each month at 5:30 p.m. at Town Hall, 1385 Hinton Waters Ave.

For more information, call 983-3511.

NEW BROCKTON

ONGOING — Tuesdays and Wednesdays, from 9-11 a.m., Disabled American Veterans Chapter 99 maintains a service office in the New Brockton Police Station at 202 South John Street. The office will assist veterans who were injured or disabled while in military service. DAV service officers help veterans and their spouses with disability compensation claims, Veterans Affairs pensions, death benefits, VA medical care, Social Security disability benefits, veterans job programs, homeless veterans services and other veteran services. All veteran services are provided free of charge. For more information, call 718-5707.

ONGOING — Adult education classes are offered in Rm. 12 at New Brockton High School, 210 South Tyler St., Mondays and Wednesdays from 6-9 p.m. All classes are free for individuals 16 years old or older who are not enrolled in public school. Individuals must take an assessment test prior to attending class. Call 894-2350 for more information.

OZARK

AUG. 6 — The Ozark/Dale County Public Library will host a book sale from 9 a.m. to noon. The selection will include used and like-new paperback and hard back fiction and non-fiction. The sale will be a buy-one, get-one free clearance.

ONGOING — Every Wednesday, the Ozark-Dale County Public Library hosts free Wii Zumba from 5:30-6:30 p.m. Teens and adults are invited. For more information, call 774-5480.

PINCKARD

ONGOING — The public is invited to the Cross Country Workshop every Sunday at 6 p.m. at the Pinckard United Methodist Church. For more information, call 983-3064.

SAMSON

ONGOING — The Samson City Council meets monthly the first and third Tuesdays at 5:30 p.m. at the Samson Community Center.

ONGOING — American Legion Post 78 meets monthly on the second Tuesday at 7 p.m.

TROY

ONGOING — Troy Bank and Trust Company sponsors senior dance nights every Saturday night from 7-10 p.m. at the J.O. Colley Senior Complex. The complex is transformed into a dance hall and features music from the 40s, 50s, and 60s with finger foods and refreshments. For more information, call Janet Motes at 808-8500.

WIREGRASS AREA

ONGOING — A German coffee takes place the last Thursday of every month except November at 10 a.m. at The Landing on Fort Rucker. The group has been meeting for more than 40 years.

AUG. 28 — New Hope Freewill Baptist Church, 3819 County Road 31, Abbeville, will host its annual Men Day at 2:30 p.m., featuring guest speaker Dr. Walter Simms from Sweet Bethel Baptist Church in Kinsey. All churches are invited to attend.

Beyond Briefs

OAT 2sdays

Montgomery's Old Alabama Town offers its OAT 2sdays special Tuesdays from 9 a.m. to 4 p.m. now through Aug. 30 where people can purchase one child's admission to Old Alabama Town and another child gets in for free. People can tour the living history museum and experience an authentic 1850s Alabama summer, and also participate in the museum's new scavenger hunt.

For more Information, visit www.landmarksfoundation.com/visit.

Calera, Shelby Railroad

Now through Sept. 24, people can board a historical train and enjoy a ride on the old L&N railroad tracks from the 1800s through the forests of Shelby County, and view the artifacts and library that are located in restored depots. Train tickets cost $14 for adults and $10 for children. Museum entry is free of charge.

For more information visit, http://www.HODRRM.org.

Second Friday Art Walk

Mobile's Second Friday LoDa Art Walk celebrates the arts downtown. The free monthly showcase of visual and performance arts starts at 6 p.m. second Friday of every month now until Dec. 9, when galleries, restaurants, shops, institutions, etc., in the Lower Dauphin Arts District open their doors for a family-friendly evening of exhibitions and entertainment by area artists.

For more information, visit http://www.facebook.com/LODAartwalk

A Walk to the Stars

A.H. Stephens State Park in Crawfordville, Georgia, will host its Walk to the Stars Aug. 13 – a sensory hike, where participants will use all of their senses to help make the night come alive, according to a Georgia State Parks press release. The hike will end at Lake Buncombe, where participants will see and learn about star constellations and view the Perseid meteor shower. The hike, which will run from 8:30-11 p.m., will start at the parking lot at Shelter 3 – also known as the barbecue pit. Cost is $4, plus $5 for parking.

For more information, call 706-456-2602.

Twilight Night Paddle

High Falls State Park in Jackson, Georgia, will host its Twilight Night Paddle three times in August: Aug. 13 and 19, 7:30-9 p.m.; and Aug. 26, 7-8:30 p.m. The ranger-led 3-mile canoe trip offers people the chance to observe wading birds and the sun setting, according to a Georgia State Parks press release. The program is open to adults and children 8 years or older who are accompanied by an adult. Reservations are required. The cost is $15, and includes boat and gear – there will also be a $5 parking fee.

For more information, call 478-993-3053.

Montgomery Biscuits baseball

The Montgomery Biscuits are a Double A affiliate of the Tampa Bay Rays and play in Riverwalk Stadium in downtown Montgomery. Various specials and promotions are offered throughout the season. For more information, visit http://www.biscuitsbaseball.com.

Civil rights walking tour

People are invited to explore Montgomery's history by walking from different historical sites to learn about profound moments from slavery, the Civil War and the Civil Rights Movement, according organizers. The tour highlights pioneers and unsung heroes who contributed to a new era. Walking tours are held Saturdays and Sundays at 1:30 and 2:30 p.m. Tours start from The Village Gallery, 107 S. Court Street. Cost is $10 for adults, $5 for children 12 and younger, and children 4 and younger are admitted for free.

To book a tour, call 334-595-9243. For more information, visit

www.facebook.com/Civil-Rights-Montgomery-996880590368424/?fref=ts.

Elvis tribute

Scot Bruce will bring his high-octane portrayal of Elvis Presley to Montgomery's Alabama Shakespeare Festival Aug. 13 at 7:30 p.m., according to festival officials. Ticket prices range from $35-$60.

For more information, call 334-271-5353 or visit tickets.asf.net/single/EventDetail.aspx?p=11165.

Lighthouse Full Moon Climb

The Cape St. George Lighthouse on St. George Island, Florida, will host a Full Moon Climb Aug. 18 from 8-9:30 p.m. Visitors are welcome to climb to the top of the lighthouse for a view of the sunset and the full moon. Light refreshments will be served.

Admission will be charged: $5 for adult and $3 for children – ages 6 and younger will be admitted for free. To make reservations, call 850-927-7745. For more on the lighthouse, visit www.stgeorgelight.org/.

GOT GAME?

3 teams earn prizes in DARPA Cyber Grand Challenge

By Cheryl Pellerin
Department of Defense News

PHOTO BY CHERYL PELLERIN

The team from ForAllSecure, a Pittsburgh-based company, was the first-place winner of the DARPA Cyber Grand Challenge Aug. 4 in Las Vegas.

LAS VEGAS — Three teams earned prize money in the Defense Advanced Research Projects Agency's Cyber Grand Challenge Friday, but all seven finalists received awards for their substantial contributions to creating the world's first autonomous bug-hunting machines.

After three years of research and development, the teams, some with members from all over the world, cut the cords with their machines Aug. 4 and – the air gap between them complete – the cyber reasoning bots were on their own for the world's first all-machine hacking tournament.

Amongst themselves the bots played capture the flag, a game usually played intensely by human hackers to find, diagnose and fix software flaws in real time in a simulated adversarial environment.

In just over eight hours of computation and 96 rounds of about 270 seconds each, the machines authored 421 replacement binaries, or new native code, that was more secure than the original. They also authored 650 unique proofs of vulnerability, or attempts to navigate the maze of inputs accepted by the software, and proved the software under analysis was vulnerable.

Redefining what's possible

"Tonight, completely autonomous systems played in an expert contest. In 2013 no such system existed and tonight seven of them played at a very high level," DARPA CGC Program Manager Mike Walker said at a press briefing immediately after the challenge.

"There's a saying in the hacker community that 'zero day can happen to anybody.' What that means is that unknown flaws in software are a universal lock-pick for intruders," he said.

"Tonight we showed that machines can exist that can detect those lock-picks and respond immediately," Walker added. "We have redefined what is possible and we did it in the course of hours with autonomous systems that we challenged the world to build."

The first place team, to receive a cash prize of $2 million, was ForAllSecure from Pittsburgh, a company founded by David Brumley, Thanassis Avgerinos and Alex Rebert. The company, whose bot is called Mayhem, has grown to nine employees in Pittsburgh and the San Francisco Bay area. They say their technology is the result of more than a decade of program analysis research at Carnegie Mellon University.

Xandra, bot designed by team TECHx of Ithaca, New York, and Charlottesville, Virginia, is the second-place winner and will receive $1 million. And Mechanical Phish, a bot designed by team Shellphish of Santa Barbara, California, will receive $750,000 as third place winner.

Shall we play a game?

The CGC was co-located this year with DEF CON, the world's largest hacker convention. Walker, himself a member of the hacker community and a respected capture the flag player, spoke last year at DEF CON about the future all-machine capture-the-flag competition.

After Walker's remarks, a DEF CON audience member challenged the CGC winner to play with the human experts at DEF CON's 2016 capture the flag. Walker agreed to take the challenge to the finalists.

After all the teams had received their awards, Walker invited the captain of the Legitimate Business Syndicate up to the stage.

"I just have one question for Mayhem," he said. "Shall we play a game?"

It was the same question the War Operation Plan Response computer asked Mathew Broderick's character, a young hacker, in the 1983 movie "War Games."

On the stage in Las Vegas, ForAllSecure co-founder Rebert moved to the mic. "It's on," he said.

The multi-day challenge is now in progress, the first time a machine has had a seat at the table of a capture the flag hacking event.

"We have no expectation that (Mayhem) is going to be able to compete with experts," Walker said. "It would be a bit like entering one of the first chess playing machines into a high-level chess tournament."

But, he said, "We are interested in what it will do in the first five minutes, in one of those places that only computers can go – high-speed reaction time. And hopefully it puts a good first foot forward for autonomy."

On the horizon

Challenges like CGC aren't the right solution to every problem, Walker said, but they work when a technology is on the horizon, on the edge of feasibility, and needs integration among several cutting-edge technologies into a single prototype.

"With self-driving cars I think you saw LIDAR, computer vision, machine learning, imaging, sensing and onboard computing all fused into a prototype, and it's very difficult to know before a prototype exists what the correct prototyping approach is," Walker explained.

"That's kind of where we were with the idea of machines being able to do fundamental computer security tasks in 2013. All these technologies for studying programs – everything from formal methods and automated mathematics to search and Monte Carlo input-generation techniques like fuzzing, directed fuzzing, dynamic analysis, sandboxing, the healing of execution divergence -- all these things were research papers had been published that said we can automate this to better inform the analyst," he added.

All the chains of technology and capability ended at a person, Walker said, and the question at the center was, what if they didn't end at a person? What if they could be tied together, and what's the best way to do that?

When the CGC began taking shape in 2013, Walker sought participation from teams from all over the world.

"I believe crowdsourcing was the right answer to that question, and that getting global innovation in on the problem helped us get a much better result today," he said.

RELIGIOUS SERVICES

WORSHIP SERVICES

Except as noted, all services are on Sunday.

Headquarters Chapel, Building 109
8 a.m. Traditional Protestant Service

Main Post Chapel, Building 8940
9 a.m. Catholic Mass Sunday
11 a.m. Liturgical Protestant Service
12:05 p.m. Catholic Mass (Tuesday - Friday)
4 p.m. Catholic Confessions Saturday
5 p.m. Catholic Mass Saturday

Wings Chapel, Building 6036
8 a.m. Latter-Day Saints Worship Service
9:30 a.m. Protestant Sunday School
10:45 a.m. Wings Crossroads (Contemporary Worship Protestant Service)
12 p.m. Eckankar Worship Service (4th Sunday)

Spiritual Life Center, Building 8939
10:15 a.m. CCD (except during summer months)

BIBLE STUDIES

Tuesdays
Crossroads Discipleship Study (Meal/Bible Study)
Wings Chapel, 6:30 p.m.

Protestant Women of the Chapel
Wings Chapel, 9 a.m. and 6 p.m.
Adult Bible Study
Spiritual Life Center, 7 p.m.

Wednesdays
Catholic Women of the Chapel
Wings Chapel, 8:30 a.m.

Above the Best Bible Study
Yano Hall, 11 a.m.

1-14th Avn Regt Bible Study
Hanchey AAF, Bldg 50102N, Rm 101, 11:30 a.m.

164th TAOG Bible Study
Bldg 30501, 11:30 a.m.

Adult Bible Study
Soldier Service Center, 12 p.m.

Youth Group Bible Study
Spiritual Life Center, 5:30 p.m.

Adult Bible Study
Spiritual Life Center, 6 p.m.

Thursdays
Adult Bible Study
Spiritual Life Center, 9 a.m.

Latter-Day Saints Bible Study
Wings Chapel, 6:30 p.m.

Saturdays
Protestant Men of the Chapel
Wings Chapel (1st Saturday), 8 a.m.

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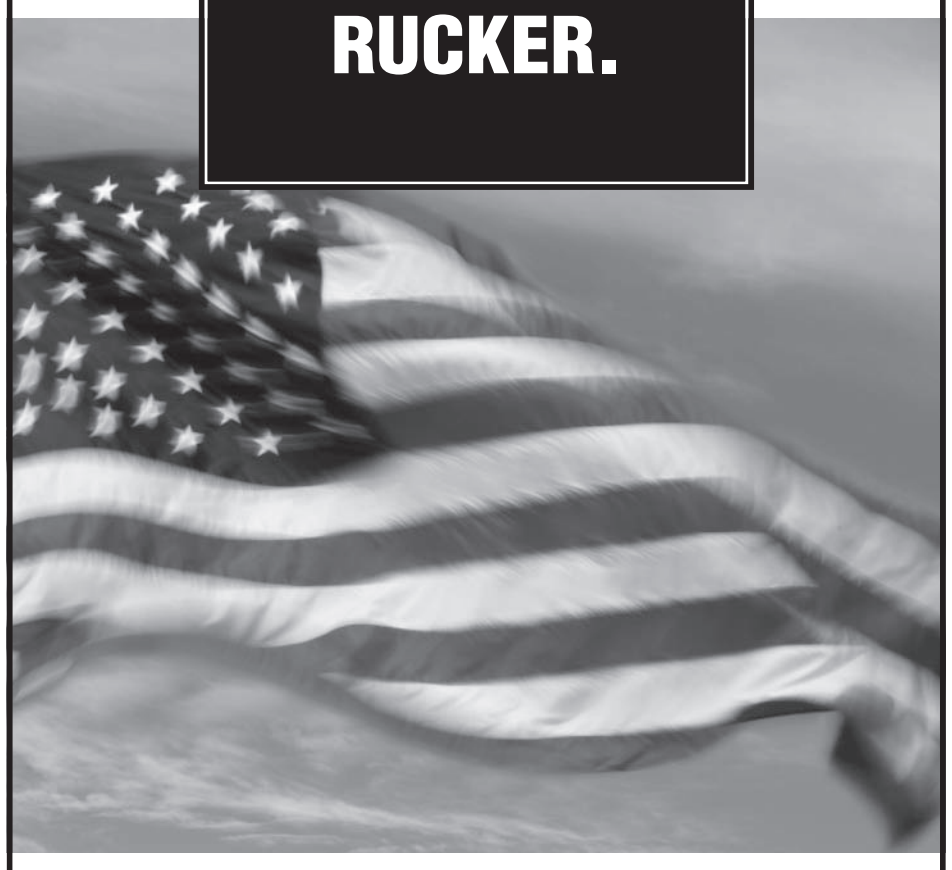

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USAA®

RECOVERY
Research, technology aid effort to help TBI patients
Story on Page D3

AUGUST 11, 2016

OPEN SEASON

Upcoming hunt targets post's feral hog population

By Nathan Pfau
Army Flier Staff Writer

Feral pigs continue to pose problems on the installation, damaging property and training areas, but Fort Rucker Outdoor Recreation is offering a way for local hunters to put a part of the solution in their sights.

Aug. 18 through Sept. 22, ODR will host a hog hunt with cash prizes to two-person teams and individuals in different categories, according to John Clancy, ODR manager.

"We're trying to get the feral pig population under control on the installation, so we're giving an incentive to help do that," said Clancy. "We want to help the Directorate of Public Works to get these hogs under control because they are causing a lot of damage to property and training areas on Fort Rucker."

Not only are they causing property damage, said the ODR manager, but they are also threatening other wildlife population on the installation, such as deer.

The contest, which will run for just over a month and be open to the public, will be in two categories: weapons hunt and trapping. Teams can enter to participate in both categories for $140, or $70 for a single category, and hunters must present their game at ODR daily between 8 a.m. and 4 p.m.

Cash prizes will be awarded in first, second and third places in both categories, and 80 percent of the registration money will be given out as prize money in each category: 40-percent payout for first place, 30-percent payout for second place and 10 percent payout for third place.

Both categories will also have opportunities for individuals to win a "big pig" jackpot, according to Clancy, which hunters can enter in for $25. The hunter who kills or traps the heaviest hog in each category will be the winner of the big pig jackpot.

The remaining 20 percent of registration fees and jackpot money will be put back into ODR to fund different events and programs, said the ODR manager.

In order for people to participate, hunters must be able to hunt on Fort Rucker and are required to have their hunters education card, certifying that they've taken the Hunters Education Course, as well as have their Alabama state hunting license and Fort Rucker hunting permit.

All of the required documentation can be acquired at ODR, said Clancy.

"We've got computers here that they can take the Hunters Education Course on, if they'd like, and we also sell the licenses and the permits," he said.

Those who are hunting with weapons may hunt with any weapon that is legal in the state of Alabama to hunt pigs with, including handguns and spears, as long as their weapons are registered for Fort Rucker, Clancy added.

Although the hunt's main purpose is to help to keep the feral pig population under control, it's also an event to help bring people together and promote camaraderie, said the ODR manager.

"We would just love for people to come out and join us, and see what we can do to help control the feral pig population out here on Fort Rucker, but it's also about having fun and maybe winning a bit of bragging rights," he said.

Hunting is only allowed in designated areas on Fort Rucker, and all hogs must be dispatched or killed on Fort Rucker to be counted. The use of hunting dogs is prohibited. Additionally, taking any wildlife other than hogs is strictly prohibited and no night hunting is allowed during the contest.

The awards ceremony will be held Sept. 23 at noon on West Beach at Lake Tholocco.

For a full list of rules and regulations, or for more information, call 255-4305.

PHOTO BY NATHAN PFAU

Then-Staff Sgt. Mark Brosel, checks out the track chair that he used throughout the hunt during the 2012 Wounded Warrior Fall Hunt. Fort Rucker maintains numerous pieces of equipment to help wounded warriors participate in hunting, fishing and camping activities.

PHOTO BY KIRK FRADY

Sgt. Jonathan Lafleur (right), allergy immunizations technician, Tripler Army Medical Center, Hawaii, gives the influenza vaccination to Spc. Tyler Warren.

Immunizations impact readiness, health of the force

By Kirk Frady
Army Medicine Public Affairs

August is National Immunization and Influenza Awareness Month and, as such, it is critically important that every Soldier, family member, Department of the Army civilian and beneficiary receive all of their immunizations, including yearly influenza immunizations, to ensure the Army is a healthy and mission-ready force.

The CDC annually ranks influenza as one of the Top 10 leading causes of age-adjusted death in the United States.

When asked why vaccinations and immunizations are so important, Lt. Col. Keith Palm, public health nurse staff officer for the Office of the Army Surgeon General, replied, "There are thousands of cases of influenza reported every year throughout the Army. Being immunized for influenza not only protects you, but also your friends, family, and coworkers where you live and work. Even a healthy adult can become seriously ill if infected with the influenza virus.

"Keeping our fighting force mission ready is one of our top priorities. Ensuring that our Soldiers receive their flu shots helps us maintain that level of readiness," Palm added.

The Army immunization program is a positive, direct, and specific approach to disease prevention and control. Before and during a time of war, this program represents a very considerable expansion of the application of immunization procedures in the Army, he said.

Currently, the Immunization Healthcare Branch of the Defense Health Agency synchronizes, integrates, and coordinates immunization policies and other immunization-related activities for all Department of Defense components, Palm added.

SEE IMMUNIZATIONS, PAGE D3

'INCREDIBLE!'

Soldier: 'My heart was full of American pride' at Olympic opening ceremony

By Tim Hipps
U.S. Army Installation Management Command Public Affairs

RIO DE JANEIRO — Whether marching into Maracanã Stadium as part of Team USA or watching on television, U.S. Army Olympians felt great pride during the opening ceremony of the Rio Olympic Games.

For race walker Staff Sgt. John Nunn, the charm of walking in his third Olympic opening ceremony was being able to simultaneously communicate with his 12-year-old daughter in Texas.

"The best part of my evening was Face-timing with Ella as I was walking into the stadium," said Nunn said. "It doesn't matter where I am or what amazing things are going on, getting to Facetime with Ella will always be the highlight of my day."

Nunn said he also enjoyed watching the reactions of first-time Olympians during the event.

"My heart was full of American pride as I walked in with my fellow countrymen," Nunn said. "It is such an honor to represent this amazing country that I live in and love. I am grateful for the Army. It is an amazing organization that always pushes me to be better than I am."

Some of his Army-Olympian teammates, like rugby coach Capt. Andrew Locke, were unable to join the parade of nations during the opening ceremony.

"The men's team was able to walk because they don't start competition for another three days, but for us we had to just rest and prepare," Locke said.

"But we watched it and it was breathtaking," Locke said. "Everybody got dressed up and we went downstairs, and we hung out with all the Team USA Olympians and cheered them off before they headed to the stadium."

Locke, who arrived in Rio on July 31, said his experience so far has been a good one.

"The food, living conditions, laundry, transportation, logistics – everything has gotten a little bit better every single day since we've been here," he said. "The people, themselves, have been outstanding in terms of the hospitality and the warm reception that we've received. I can only imagine the work that goes on behind the scenes just to run this event."

Maj. Dan Browne, distance running coach with the U.S. Army World Class Athlete Program, watched the ceremony on television with Army-Olympians Spcs. Paul Chelimo, Shadrack Kipchirchir and Leonard Korir.

They were still in Mammoth Lakes, California, where they will train at 8,500 feet above sea level until the last minute before their races next week.

"When the opening introduction on NBC came on the television, it became very real to me that my Soldiers were going to get a chance to shine in Rio," Browne said. "I am proud that my guys have worked hard, sacrificed and prepared for this moment. I know they will be great representatives of the United States and ambassadors for the U.S. Army."

PHOTO BY TIM HIPPS

Twenty-five-time Olympic medalist swimmer Michael Phelps carries the Stars and Stripes while leading Team USA into Maracanã Stadium during the Opening Ceremony of the 2016 Olympic Games in Rio de Janeiro, Brazil, Friday.

U.S. Army World Class Athlete Program and two-time Team USA boxing coach Sgt. 1st Class Joseph Guzman also watched the show on television, but he was in Rio. He predicts great things for Team USA Boxing.

"I didn't get to walk the opening ceremonies," Guzman said. "For me, I felt honored not only to represent Team USA and USA Boxing, but the Army WCAP and all the men and women currently serving our country. We got two wins (Saturday) so it was a great start for us."

WCAP Modern Pentathlete Sgt. Nathan Schrimsher walked in the opening ceremony and then immediately left town for an off-site training camp.

"The opening ceremonies will be something that I will never forget for the rest of my life," Schrimsher said. "It was incredible!"

WCAP Modern Pentathlon coach Staff Sgt. Dennis Bowsher walked in the London 2012 opening ceremony, but this year he was en route to Brazil to serve as coach and training partner for Schrimsher.

"We flew over night Friday night to head straight to our training camp, so I missed the opening ceremonies," Bowsher said. "We get into Rio on Aug. 15."

Whether or not they had the opportunity to walk in the opening ceremony, the Army-Olympian athletes and coaches are all proud to be representing the U.S. Army as part of the U.S. Olympic team.

"I'm excited to be wearing the USA kit," Nunn said, "with the Army kit in my heart."

Down Time

TRIVIA

Trivia test by Fifi Rodriguez

1. MYTHOLOGY: What was Charybdis in ancient literature?
2. TELEVISION: Who was the original host of the game show "Let's Make a Deal"?
3. U.S. STATES: What is the capital of South Dakota?
4. HISTORY: When was the Securities and Exchange Commission established to regulate sales of stocks and bonds?
5. GEOGRAPHY: What U.S. city's seal includes a phoenix, which symbolizes its rise from destruction in the Civil War?
6. GENERAL KNOWLEDGE: Where are the British Crown Jewels displayed?
7. FOOD & DRINK: What is tequila made from?
8. MOVIES: Who earned a second supporting actor Oscar for his performance in "The Cider House Rules"?
9. ANATOMY: What kind of tissue connects bones and joints?
10. LITERATURE: What was the pseudonym of author Hector Hugh Munro?

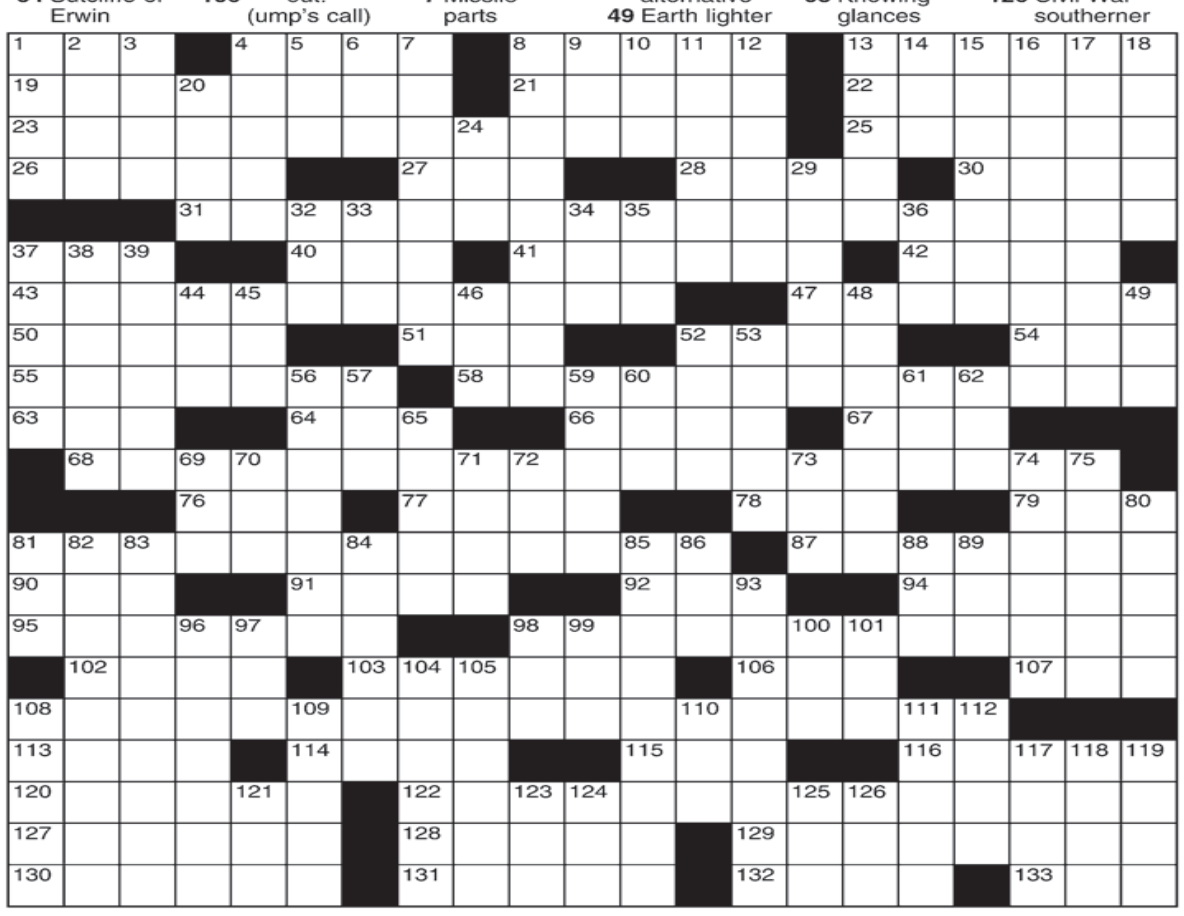
See Page D3 for this week's answers.

Super Crossword

TOOLING AROUND

ACROSS
1 Divine one
4 Chew on
8 Part of UPI
13 "Yeah, and?"
19 Gilbert and Sullivan work
21 Try to swat
22 Operate a 767, say
23 Tool with a large bony projection?
25 "La Isla —" (1987 Madonna hit)
26 Freshwater polyp
27 Clucking bird
28 Eye, in Versailles
30 Mined rocks
31 On a tool's upper surface?
37 Oomph
40 Roadside assistance gp.
41 Odd one out
42 Bazaar sight
43 Tool given as a peace offering?
47 Czarina, e.g.
50 Glittery rock
51 — Jacinto
52 Jamie of old sitcomdom
54 Sutcliffe or Erwin
55 Trade sanction
58 Hit a cartoon dad with a tool?
63 Trendy resort
64 State south of B.C.
66 Ending for million
67 Alert at sea
68 Add-on accessory for a tool?
76 "The Big Read" org.
77 Ham's father
78 Mode or king preceder
79 Remind over and over
81 Male bovine using a tool?
87 Hurriedly
90 "Be there — sec"
91 Glen
92 Owns
94 Speak to the masses
95 Get a steal at a store
98 Use a tool on some Heinz products?
102 Disintegrate, as cells
103 Sees in the distance
106 "— out!" (ump's call)
107 Before
108 Priciest tool?
113 "Permit Me Voyage" writer James
114 "Mike & Mike" airer
115 Taoism's — -tzu
116 Crude-carrying ship
120 Venetian island
122 Statement upon locating someone's lost tool in the dark?
127 Expose by being a fink
128 "It's —!" (quitter's cry)
129 Getting set to propose
130 Gauge
131 Did it wrong
132 Cries noisily
133 Thing, in legalese

DOWN
1 Artist Vincent van —
2 Grand Ole —
3 Skillful feat
4 Gain access to
5 Final degree
6 From — Z
7 Missile parts
8 Observable occurrences
9 Divest (of)
10 JFK posting
11 Remove, as a branch
12 Canonized fifth-cen. pope
13 Weasel's kin
14 — -lacto-vegetarian
15 Gain the support of
16 Quality of a yeti or a yak
17 Certifies
18 Bedevil
20 — avis (wonder)
24 With 110-Down, post-tax revenue
29 Buries
32 — chi ch'uan
33 Solo in films
34 Followers of omicrons
35 Pre-CIA gp.
36 "The Racer's Edge"
37 Printing units
38 Free from obligation
39 Big cheese
44 Rx overseer
45 Plop lead-in
46 Informal turndown
48 X-ray alternative
49 Earth lighter
52 Flowerless office plant
53 Match milieu
56 Yankees manager Joe
57 Lofty verse
59 Quite manly
60 My, in Milan
61 Pithy saying
62 Follower of chi
65 Void legally
69 Call a halt to
70 Barely visible
71 Tune penner Porter
72 TV's Linden
73 71-Down, collegiately
74 Cut-rate
75 Talk nonstop
80 Ducks' kin
81 Bro's counterpart
82 Comparable things
83 Members of an elite U.S. force
84 Rolls with holes
85 Shaped with a certain cutting tool
86 Penn of "Epic Movie"
88 Ad —
89 Boat built by 77-Across
93 Knowing glances
96 Parsons of "Roseanne"
97 96-Down's "Roseanne" role
98 Fish by letting the bait bob
99 Clergyman's subj.
100 JFK Library architect
101 Deep anger
104 Lying face-up
105 Try to separate out, as gold
108 One of the von Trapp daughters
109 Time on end
110 See 24-Down
111 Riatas, e.g.
112 Many a sunlit ledge
117 Lion's den
118 Suffix akin to -trix
119 Partner of rules, briefly
121 Lean- — (sheds)
123 Locale of Sp.
124 U-turn from WNW
125 Game akin to crazy eights
126 Civil War southerner



See Page D3 for this week's answers.

Weekly SUDOKU

by Linda Thistle

6					9		7	
	5			8				1
		3	6			5		
	3		5		1		4	
		9		3		7		
8				2				5
	7			1				4
2			4			6		
		5			8		3	

Place a number in the empty boxes in such a way that each row across, each column down and each small 9-box square contains all of the numbers from one to nine.

DIFFICULTY THIS WEEK: ◆◆

◆ Moderate ◆◆ Challenging ◆◆◆ HOO BOY!

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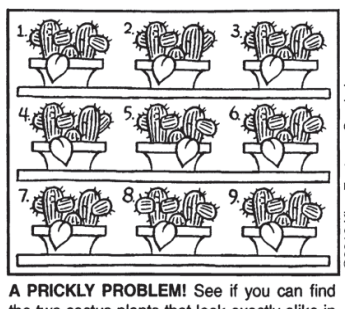
See Page D3 for this week's answers.

Kid's Corner



A PRICKLY PROBLEM! See if you can find the two cactus plants that look exactly alike in less than 30 seconds.

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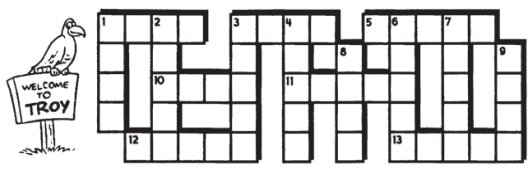
Answers: Plants 3 and 7.

Junior Whirl

by Charles Barry Townsend

SHORT-NAME AMERICAN CITIES!



Illustrated by David Coulson

Below are the names of 15 American cities that you will need to complete the puzzle above. Use the trial-and-error method.

4-Letter Names	5-Letter Names	5-Letter Names
Alta	Amory	Orion
Avon	Angie	Ronda
Iola	Eaton	Tracy
Milo	Leeds	
Otis	Meade	
Troy	Minot	

Answers: (Across) 1. Avon. 3. Milo. 5. Amory. 10. Iola. 11. Eaton. 12. Angie. 13. Tracy. (Down): 1. Alta. 2. Orion. 3. Meade. 4. Leeds. 6. Minot. 7. Ronda. 8. Otis. 9. Troy.

A BUSTED BAFFLER! Clumsy Calvin will never be able to use this broken vase. However, can you think of two things that *have* to be broken before they can be used?

Answer: One is an egg. The other is a horse, which must be "broken in" before it can be ridden.

THE "G" PYRAMID! As you move down the word pyramid shown here, each word contains the same letters as the word above it, plus a new letter. We give you all the G's. Here are some hints from the top down:

1. Slang for $1,000 (given).
2. Move along.
3. Unhewn timber.
4. Of great duration.
5. An unfamiliar language.
6. Elfin creature.
7. Locking the door.
8. Swelling with water.

Answers: The words are: G, go, log, long, lingo, goblin, boiling, bloating.

Wishing Well®

8	3	8	5	8	2	8	4	5	8	3	8	6
L	C	I	C	F	Y	E	Y	O	I	O	M	N
8	2	5	3	6	3	2	5	3	4	5	8	5
P	O	N	M	O	F	U	F	O	O	R	R	O
4	2	4	3	7	6	2	4	2	4	3	4	5
U	A	P	R	S	S	R	R	E	I	T	Z	N
8	5	7	3	8	4	5	2	4	8	5	6	5
O	T	T	R	V	E	P	W	F	E	R	T	O
3	8	4	5	2	4	5	2	3	7	3	2	3
E	S	R	B	E	I	L	L	C	A	E	C	I
7	6	3	6	4	6	7	2	3	4	3	2	4
Y	R	V	U	E	G	C	O	E	N	D	M	D
2	6	5	2	7	6	4	6	5	7	6	5	7
E	G	E	D	A	L	S	E	M	L	S	S	M

HERE IS A PLEASANT LITTLE GAME that will give you a message every day. It's a numerical puzzle designed to spell out your fortune. Count the letters in your first name. If the number of letters is 6 or more, subtract 4. If the number is less than 6, add 3. The result is your key number. Start at the upper left-hand corner and check one of your key numbers, left to right. Then read the message the letters under the checked figures give you.

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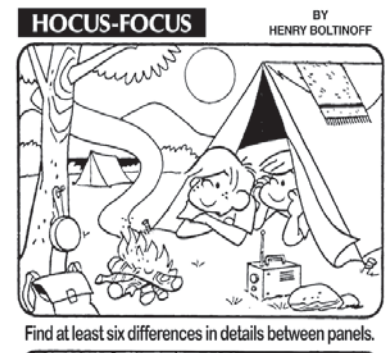
HOCUS-FOCUS

BY HENRY BOLTINOFF



Find at least six differences in details between panels.

Differences: 1. Flying gap is missing. 2. Tent is missing. 3. Sun is lower. 4. Radio is missing. 5. Tent flap is different. 6. Towel is missing.

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Research, technology aid effort to help TBI patients

By Shannon Collins
Department of Defense News

(Editor's note: This is the fourth in a five-part series on the National Intrepid Center of Excellence in Bethesda, Maryland.)

WASHINGTON – Since the Vietnam War, doctors have seen an increase in service members returning from combat with traumatic brain injuries from blasts and improvised explosive devices.

At the National Intrepid Center of Excellence, a directorate of Walter Reed National Military Medical Center in Bethesda, Maryland, doctors and therapists use research and technology to help service members with TBI in their recovery.

Dr. Louis French, the center's deputy director, said NICOE uses this research and technology to study the structure and metabolic activity in the brain, how it metabolizes glucose, where the blood flow is, and the electrical activity in the brain.

"All of those things we want to know go into this idea of function, and we want to visualize those better," he said. "And the techniques we have developed, there are ways of better visualizing abnormalities in the brain. Once we gain better insight into what these abnormalities are, then we can find ways of targeting treatments better."

COURTESY PHOTO

A technician demonstrates how a patient with a traumatic brain injury uses the Computer Assisted Rehabilitation Environment virtual reality to help with movement and balance at the National Intrepid Center of Excellence in Bethesda, Md.

MEG

NICoE is the only clinic in the nation to have a magnetoencephalography scanner dedicated to the treatment of TBI, said Dr. John Hughes, a neurologist and the director of the MEG lab.

"It's really unprecedented that an institution can have this dedicated to one disorder," he added.

The MEG is a technique used to measure and record the brain's magnetic fields during its normal activity and provide insight into how the brain is functioning, Hughes said. NICOE uses it to study the electrical oscillations in a mildly traumatic brain as well as the physiology of the cortex of the brain and the psychological issues related to it, he said, noting that there are only 40 MEG labs in the country.

"The fact we have an MEG lab that's really dedicated to understanding traumatic brain injury is a wonderful opportunity for all of our active duty members and veterans to help us understand these disorders," he said. "This is a pretty unique situation. It's very sophisticated instrumentation."

The MEG requires liquid helium that goes over more than 300 sensors placed just above the scalp to keep the sensors very cold.

"I'm thrilled to be able to apply this technology to this specific problem," Hughes said.

He said the MEG is similar to the electroencephalography, or EEG, used to record the electrical component of brainwaves, but the magnetic fields require the more sophisticated instrumentation.

"If we continue to study traumatic brain injury with MEG, we can't fail to make significant insights into understanding the physiological basis of symptoms of TBI, and we'll reap huge benefits in terms of developing therapies specific to those physiological issues we can discover with MEG," he added.

ActiGraph

Another device NICOE uses is the ActiGraph watch, used to record sleep patterns. Similar to a fitness tracker, patients can wear it instead of needing the sensors used in a traditional sleep study to be attached to their heads, said Dr. Tony Panettiere, neurology sleep medicine physician.

"Most people who've had traumatic brain injury who we see often have neurological complaints such as headaches, memory dysfunction, irritability, focus attention issues and sleep issues," Panettiere said.

During a sleep study, he said, the device measures brainwaves, muscle relaxation, how a patient is breathing and heart rhythm. Technicians can tell if a person has sleep apnea or a limb movement disorder.

Panettiere said the advantage of the ActiGraph is that the results are less artificial than they'd be if the patient had to sleep with all of the wires attached as they do in a traditional sleep study.

"They're back in their own bed, and we even do it a couple weeks with them wearing the watch if there's any information that's contrary to what we've found in the lab," he said.

Research, imaging devices

French said the research goes primarily in two directions. The first is in the characterization of patients – understanding the symptoms they have after they've been injured through advanced neuroimaging.

NICOE also has PET CT, CT, 3 Tesla MRI, a magnetic resonance spectroscopy and a number of other dedicated imaging devices for traumatic brain injury patients, said Navy Cmdr. (Dr.) Grant Bonavia, interim chief of the research department and chief of neuroimaging and measurement devices.

"We have a group of researchers who are looking at techniques and modalities that are not necessarily well described yet, but there's hope that using these advanced technologies that one could find abnormalities that may be there just below the threshold of standard neuroimaging that would be done at outside institutions," he said. "So we've looked into functional MRI and diffusion tensor imaging, which are advanced techniques. We also have PET data from a large number of patients that we're analyzing. And the MEG, which is also a very advanced device, has a lot of potential to assist in diagnosis in following the patient's response to therapies."

French said he is the principal investigator on a congressionally mandated 15-year mandated longitudinal study, which will study the effects of TBI and the expression of symptoms over time.

"Our goal is to follow people for 15 years and find out how their symptoms change over time, how they do after having had a brain injury in a military situation, and understand how the brain injury recovery may intersect with the aging process," he said.

French said NICOE is working in partnership with the National Institutes of Health, which is giving the center access to some specialized researchers and techniques with these characterization studies.

Research, treatment

NICOE also is exploring new treatment options, French said. Currently, NICOE offers animal-assisted therapy, assistive technology, audiology and vestibular services, a brain fitness center, driving assessment and rehabilitation, a computer-assisted rehabilitation environment, family education and art therapy.

"We have treatments we provide for people here, and we see those techniques work for people, but we don't always completely understand them," French said. "So we want to know a little bit more about. Why do they work for some people and not as well for other people? Is there an optimal time that you should start these treatments? Is there an optimal intensity or dosage that we do for these kinds of things?

"Those are fundamental questions that have not always been asked," the doctor continued, "and we want to understand more about what we're doing. We want to make sure there's a firm scientific foundation for all the clinical work we do so we can conduct studies in that regard."

Some of the treatments NICoE uses are complementary and alternative therapies, such as acupuncture and art therapy.

"We use a lot of (those) therapies here at NICOE that have evidence-base that also help these service members improve," said Dr. Gene Casagrande, team coordinator and primary care physician. "To watch a headache improve without narcotics and to watch patients relax and sleep better with just breathing, to me, that's very important. We're doing a lot of different things here at NICoE that haven't been introduced in the past at their home station."

Sleep and nutritional education play important roles in some of his patients' lives, he added.

System of care

French, who's been working with TBI care for 16 years, said the military went from being behind the curve to establishing a care system at every major troop center at every major military treatment facility today.

He said Intrepid Spirit Centers are being built around the country and will share lessons learned with NICOE.

"We're trying to develop a national care system that's all linked together so we can communicate about best practices," he said.

Inpatient screening and consultation services are available at Walter Reed, French said.

"We continue to provide and have assets related to the long-term care of people," he said. "We have some of our services over in the hospital. We have our brain fitness center, which is our computerized cognitive remediation program, which is a program that works in conjunction with the speech pathologists and the occupational therapists and the neuropsychologists to focus on trying to improve cognitive dysfunction, memory intention, language and problem solving."

Immunizations

Continued from Page D1

Immunizations are the best protection against vaccine-preventable diseases, and have saved more lives than any other medical measure in history. In their "Ten Great Public Health Achievements," the Centers for Disease Control and Prevention estimates that the routine childhood immunization schedule can prevent up to 42,000 deaths and 20 million cases of disease for every 4 million children who are born. Morbidity from vaccine-preventable diseases has fallen 90 percent or more since the mid-20th century.

For the upcoming influenza season, the Army, along with other services, made a unanimous decision not to use Flu Mist. This was based on guidance received from the CDC, Palm said.

When asked about the decision not to use Flu Mist this year, he said, "The Army has routinely used Flu Mist to immunize our population for over ten years. This year, however, the Centers for Disease Control recommended not using Flu Mist due to its low effectiveness. The Army and our sister services follow federal health recommendations and, as a result, have replaced Flu Mist with injectable influenza vaccine for this year."

Flu season can be dangerous, unpredictable and degrade force readiness and the Army's mission. Army Medicine is committed to ensuring that every Soldier, family member, DA civilian, Army retiree and healthcare provider receives the vaccines they need to stay healthy, Palm said.

FORT RUCKER SPORTS BRIEFS

Flag football coaches meeting

People interested in coaching an intramural flag football team should attend one of the coaches meetings Tuesday at either 9:30 a.m. or 5:30 p.m. at the Fort Rucker Physical Fitness Center conference room – located on Andrews Avenue.

For more information, call 255-2296.

Fort Rucker Hog Hunt

Fort Rucker Outdoor Recreation will host a hog hunt Aug. 18-Sept. 22. Team categories include: two-man trapping and two-man weapon. Entry fee is $70 per team. Cash prizes for first-third places and for the biggest hog. Cash prizes are based on total entry fees: 40 percent for first place, 30 percent for second place and 10 percent for third place for each category. A cash prize will also be awarded to the team that harvests the biggest pig.

For more information, call 255-4305 or visit rucker.armymwr.com.

Color run

The Fort Rucker Physical Fitness Center will host a 2-mile color run Aug. 20 at 8 a.m. The run will not be a timed event and all participants will receive a medal. There will be no separate fun run and children under age 12 may register for free and complete all or any part of the 2-mile course. Participants should wear white. The cost is $15 for individual entry, no shirt included, or $20 through Sunday with a T-shirt included. Monday through race day, race entry with shirt is $25, while supplies last. Participants are encouraged to pre-register. Forms are available at either PFC. Race day registration will be 7-7:45 a.m. on the Fort Rucker Festival Fields. Refreshments will be provided. The event is open to the public.

For more information, call 255-2296.

Deep sea fishing

MWR Central will host a deep sea fishing day trip to Destin, Florida, Aug. 27 aboard the Vera Marie. All people need to do is sit back, relax and enjoy a day of fishing – everything else is taken care of for those who take part. The bus will depart Fort Rucker at 4 a.m. from Bldg. 5700, Soldier Service Center, and return at 8 p.m. Organizers recommend people bring a small cooler with drinks and snacks – no glass is allowed. The cost is $75 per person, plus tip. The price includes transportation to and from Destin, bait, rod, reel, fishing license, six-hour fishing trip, and fish cut and cleaned at the end of the trip. The trip is limited to 42 participants.

To get more information or to sign up, visit outdoor recreation, 255-4305, or MWR Central, 255-2997.

Golf championship

Silver Wings Golf Course will host its club championship Sept. 3-4. The tournament is for members only and costs $50. Tee times are from 7-9 a.m. and the format is stroke play. A U.S. Golf Association handicap or Saturday Dog Fight Points are required – whichever is higher. USGA and local rules apply. There is an open division, as well as a senior division for those ages 60 and older. Lunch is included. People need to register by Sept. 1.

For more information, call 255-2997.

PUZZLE ANSWERS

Super Crossword

Answers

G	O	D		G	N	A	W		P	R	E	S	S		S	O	W	H	A	T
O	P	E	R	E	T	T	A		H	I	T	A	T		A	V	I	A	T	E
G	R	E	A	T	H	O	R	N	E	D	A	W	L		B	O	N	I	T	A
H	Y	D	R	A			H	E	N			O	E	I	L		O	R	E	S
			A	T	T	H	E	T	O	P	O	F	O	N	E	S	V	I	S	E
P	E	P			A	A	A		M	I	S	F	I	T		T	E	N	T	
A	X	O	F	K	I	N	D	N	E	S	S			E	M	P	R	E	S	S
G	E	O	D	E			S	A	N			F	A	R	R			S	T	U
E	M	B	A	R	G	O		H	A	M	M	E	R	S	I	M	P	S	O	N
S	P	A			I	D	A			A	I	R	E		S	O	S			
	T	H	E	W	R	E	N	C	H	C	O	N	N	E	C	T	I	O	N	
			N	E	A		N	O	A	H			A	L	A			N	A	G
S	A	N	D	E	R	B	U	L	L	O	C	K		I	N	H	A	S	T	E
I	N	A			D	A	L	E			H	A	S			O	R	A	T	E
S	A	V	E	B	I	G			D	R	I	L	L	P	I	C	K	L	E	S
	L	Y	S	E		E	S	P	I	E	S		Y	E	R			E	R	E
M	O	S	T	V	A	L	U	A	B	L	E	P	L	I	E	R	S			
A	G	E	E		E	S	P	N			L	A	O			O	I	L	E	R
R	I	A	L	T	O		I	F	E	E	L	Y	O	U	R	P	L	A	N	E
T	E	L	L	O	N		N	O	U	S	E		K	N	E	E	L	I	N	G
A	S	S	E	S	S		E	R	R	E	D		S	O	B	S		R	E	S

Weekly SUDOKU

Answer

6	2	8	1	5	9	4	7	3
4	5	7	3	8	2	9	6	1
1	9	3	6	4	7	5	2	8
7	3	2	5	9	1	8	4	6
5	6	9	8	3	4	7	1	2
8	1	4	7	2	6	3	9	5
3	7	6	9	1	5	2	8	4
2	8	1	4	7	3	6	5	9
9	4	5	2	6	8	1	3	7

TRIVIA

Answers

1. A whirlpool sometimes described is a sea monster
2. Monty Hall
3. Pierre
4. 1934, after the 1929 stock market crash
5. Atlanta
6. The Tower of London
7. Blue agave
8. Michael Caine
9. Ligament
10. Saki

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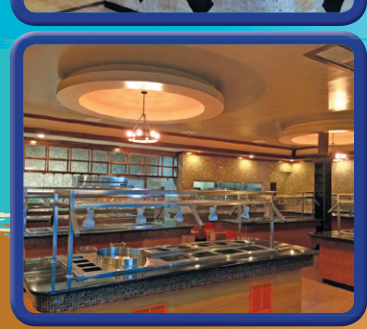

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